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TECHNICAL NOTE

D-410

INTERIM DEFINITIVE ORBIT FOR THE SATELLITE 1958-EPSILON, EXPLORER-IV

Theory and Analysis Staff
Goddard Space Flight Center

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
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INTERIM DEFINITIVE EPHEMERIS FOR THE SATELLITE 1958 EPSILON, EXPLORER IV, FOR THE PERIOD FROM 1507 U.T. JULY 26, 1958 TO 1559 U.T. OCTOBER 5, 1958 1

INTERIM DEFINITIVE ORBIT FOR THE SATELLITE 1958 EPSILON, EXPLORER-IV

INTRODUCTION

The interim definitive ephemeris for the orbit of the satellite 1958 Epsilon, Explorer-IV during the period of its radio lifetime is presented in this report. A summary of certain position information indicating accuracies for the orbital arcs underlying the ephemeris is presented in Table I. The detailed ephemeris information is presented at the end of this report in the form of tables which give the latitude and longitude of the sub-satellite point and the satellite height for each minute of time. The sub-satellite point is defined here as the point on the earth's surface over which the satellite was determined to be at the indicated time. This form of presentation was recommended by the International Geophysical Year agencies concerned, for use in specifying the orbital positions of IGY satellites.

Time is specified by giving in columns, the day, hour and minute of Greenwich mean time. Longitude and geographic latitude are specified to the nearest second of arc. East longitudes and north latitudes are taken as positive. The satellite height is expressed in kilometers to four decimal places.

DETERMINATION OF THE ORBIT

The ephemeris is based upon radio interferometer observations obtained from the worldwide Minitrack network established under Project Vanguard. The ephemeris was arrived at by obtaining a set of overlapping orbital arcs. Each individual arc was determined by means of a differential correction process of the Eckert-Brouwer type (1). The satellite position was determined using a formulation developed by Herget and Musen (2). This formulation represents both the secular and periodic perturbations due to the earth's oblateness. It represents the effect of atmospheric drag by identifying it with the linear part of the change in the mean motion which was observed to occur during the interval spanned by the orbital arc. The parameter which represents this atmospheric effect on the mean motion, and which can be interpreted in terms of a period decrement, was regarded as a seventh unknown which was solved for simultaneously with the six orbital elements in the differential correction process. The orbital elements given by the differential correction process were the semi-major axis, a, the eccentricity, e, the inclination, i, the right ascension of the ascending node, θ, the argument of perigee, ω, the mean anomaly, M_M, and the period decrement at the epoch, T_M. Initial conditions for the first orbital arc were obtained by methods such as those described in reference (3). The observations which form the basis of each orbital arc were discussed. The final differential correction result was based upon the observations which were retained. The value of the standard deviation of fit for each orbital arc is given in Table I in milliradians of arc referred to the observer. These are then the basic measures of the accuracy with which this interim definitive orbit is determined. The accuracies of the corresponding satellite positions are functions of the ranges involved. These ranges are of the order of 1000 miles on the average, hence the values shown in the third column of Table I can be thought of as approximate values of the uncertainties in the positions in miles.

The transfer from one arc to the next occurs at a time in the interval of overlap at which the radial distance between the positions specified by the two adjacent arcs is a minimum. Values of this distance and the corresponding differences in the coordinates also are given in Table I. Positions corresponding to both arcs at the transfer time are given in the ephemeris. The arcs are identified by number. The differences between the positions at the transfer times are comparable to the residuals within the individual arcs. Hence the complete ephemeris provides a piecewise continuous representation of the entire orbital arc.

Equator crossing information is presented for ascending nodes. It appears in lines between the entries for the minute vectors which occur just before and after the nodal crossings. These lines contain the day, hour, minute and second of the nodal crossing; the longitude of the node in degrees, minutes and seconds; the pass number; and the satellite height in kilometers to four decimal places.

Certain of the station alerts which were generated for the benefit of observers are also shown in the sets of columns giving the satellite positions. They give information about the satellite at the time when it crossed the station's meridian. Each of these station alert lines includes information identifying the station, the time of the passage of the satellite across the station's meridian in days, hours, minutes and seconds to the nearest millisecond, the zenith angle in degrees, and the range in kilometers to four decimal places. The zenith angle is taken as positive when the satellite is north of the station. The direction of the satellite's traverse across the station's meridian also is indicated. A key to the symbols identifying the stations and the positions of the stations are contained in Table II.

ACKNOWLEDGMENTS

A significant portion of the interim orbit determination presented herein was accomplished during the IGY under Project Vanguard. The computations were made at the Vanguard Computing Center* using Minitrack System data. The orbit determination procedures and perturbation program formulations so essential to the orbit analysis have been developed and applied through the combined efforts of many organizations including members of the staffs of the National Aeronautics and Space Administration, the Naval Research Laboratory, the Naval Observatory, the Cincinnati Observatory, and the International Business Machines Corporation.

REFERENCES

1. Eckert, W.J., and Brouwer, D., "The Use of Rectangular Coordinates in the Differential Correction of Orbits," Astronomical Journal 46:125, 1937; Errata, 47:83, 1938

2. Herget, P., and Musen, P., "General Theory of Oblateness Perturbations," American Mathematical Society Symposium on Orbit Theory, New York University, April 1957

3. Siry, J.W., "The Vanguard IGY Earth Satellite Program," Fifth General Assembly of CSAGI, Moscow, 1958

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*Now the NASA Space Computing Center.

Table I
Summary of Certain Position Information for Arcs Extending From 1507 U.T. 26 July 1958 to 1559 U.T. 5 Oct. 1958

Arc No.	Interval (d-h-m) U.T.	Standard Deviation of Fit (milli-radians)	Coordinate Differences & Corresponding Distances Between Points in Adjacent Arcs at Transfer Times. Distances are in Nautical Miles, Angles in Nautical Miles at Sea Level.			
			Long.	Lat.	Ht.	Radial Distance
1	26-15-07 to 30-15-10	8.2	10.6	2.3	2.9	13.8
2	30-15-10 to 3-17-53	3.5	2.5	0.5	0.5	2.7
3	3-17-53 to 7-16-56	5.0	1.0	2.2	0.2	2.6
4	7-16-56 to 11-12-38	5.0	2.4	0.5	0.9	2.7
5	11-12-38 to 15-17-04	5.7	0.14	0.3	0.99	1.04
6	15-17-04 to 19-17-59	5.0	2.5	0.7	0.8	2.8
7	19-17-59 to 23-17-26	6.8	0.1	1.5	4.5	4.9
8	23-17-26 to 27-12-08	5.4	2.6	0.8	0.6	2.9
9	27-12-08 to 31-14-06	5.6	0.3	0.03	0.6	0.7
10	31-14-06 to 4-13-4	3.2	0.7	0.5	1.9	2.2
11	4-13-4 to 8-15-17	4.4	0.8	0.1	1.9	2.2
12	8-15-17 to 12-15-38	4.2	0.4	0.1	2.0	2.1
13	12-15-38 to 16-16-59	4.3	1.8	3.3	2.3	4.7
14	16-16-59 to 20-17-09	4.0	0.3	0.3	3.6	3.7
15	20-17-09 to 24-13-02	4.9	0.3	1.0	4.4	4.5
16	24-13-02 to 28-13-29	4.6	2.5	1.1	1.8	3.4
17	28-13-29 to 2-16-38	3.4	3.0	3.0	1.1	4.6
18	2-16-38 to 5-15-59	2.2				

Table II
Station Locations

Station Designation	Station Location	East Longitude	Latitude	Elevation (Ft)
ABDEEN	Aberdeen Proving Ground, Md.	283 55 04	N 39 28 28	
2AFMTC	AFMTC, Fla.	279 24 21	N 28 24 53	
AGASTA	Antofagasta, Chile	289 43 36.838	S 23 37 15.993	1703
ALASKA	Stanford Research, Alaska	212 09 36	N 64 51 24	630
1ALBUQ	Kirtland AFB, Albuquerque	253 27 30.837	N 35 03 18.25	5310
1ALMGO	Holloman AFB, Almagorda, N.M.	254 02 58.045	N 35 52 24.27	4350
2ALSKA	Fairbanks, Alaska	212 10 00	N 64 52 22.8	
ARKANS	Forrest City, Arkansas	269 14 10	N 35 00 54	
2AZORS	Azores	332 55 15.4	N 38 45 10.8	
BELVOR	Ft. Belvoir, Virginia	282 52 14.8	N 38 42 03.5	
BLKSTA	Black Station, Nigeria, JPL	003 54 01	N 07 26 22	
1 BLOEM	Bloemfontein, So. Africa	026 13 35.6	S 29 06 19.52	4901
BOLDER	Boulder, Colo., Bustans Res.	254 45 42	N 40 07 42	5560
BPOINT	Blossom Point, Maryland	282 54 48.170	N 38 25 49.718	15
BRMUDA	Paynters Hill, Bermuda	295 17 57.040	N 32 20 11.677	
BSANDS	Barking Sands, Kauai, Hawaii	200 12 40	N 22 02	14
1CAPTO	Capetown, South Africa	018 28 37.984	S 33 56 00.440	22
1CHILK	China Lake, California, NOTS	242 20 13.2	N 35 39 25.2	2300
2COLNS	Collins Radio, Iowa	268 25 23	N 42 02 05	
CPCAN1	Cape Canaveral, Fla., XN-1	279 24 09.949	N 28 13 35.279	
CPHATS	Cape Hatteras, N.C.	284 28 58	N 35 15 03	
1CURAC	Curacao Island, N.W.I.	291 09 46.00	N 12 05 50.4	23
DGRAND	Grand Turk Is., Down Range	288 51 56.685	N 21 30 21.196	30
DIANAO	Ft. Monmouth, N.J., Diana	285 56 20.4	N 40 11 02	
EANTIG	East Antigua	298 13 16.536	N 17 08 32.586	16
ELPHAB	Elephant Butte, New Mexico	252 00 10	N 33 26 35	
FTMONM	Ft. Monmouth, New Jersey	285 58 30	N 40 15 30	
2FTMON	Ft. Monmouth, New Jersey	285 58 30	N 40 15 30	
FTSILL	Ft. Sill, Oklahoma	261 35 40	N 34 39 20	
FTSTEW	Ft. Stewart, Georgia	278 30 18.040	N 31 59 07.805	33
FTSTEW	Ft. Stewart, Georgia	278 29 26	N 31 58 36	
GOLDST	Goldstone Lake, Calif., JPL	243 09 06	N 35 23 22.8	3410
2GOLDS	Goldstone Lake, Calif.	243 08 57	N 35 26 49	
GUAMIS	Guam Mariana Is., Pacific	144 51 07.824	N 13 37 52.802	
HAVANA	Havana, Cuba	277 28 33.880	N 22 52 18.132	141
HAWAII	Hawaii AF, Lunar	204 18 53	N 18 56 32	
HAWSTL	Hawaii STL Radar	204 18 54	N 18 49 26.22	
HDLBRG	Heidelberg, Germany	008 43 14.8	N 49 23 54	1857
JOBURG	Esselen Park, South Africa	028 14 28.376	S 26 01 56.846	5370
JODREL	Jodrell Banks Obs., England	357 41 38	N 53 03 03	
JOHNIS	Johnston, Johnston Is., Pac.	190 29	N 16 44	
1JUPTR	Jupiter, Palm Beach, Fla.	279 50 30.48	N 27 00 27.04	75
LANGLY	Langley Rsch. Center, Va.	283 36 34.580	N 37 06 10.995	
LAREDO	Laredo, Texas	260 38 00	N 27 32 00	656
LIMAPU	Lima, Peru	282 50 58.182	S 11 46 36.492	161
LINCON	Millstone, Mass.	288 30 28	N 42 37 03	512
LINCON	Lincoln Lab., Millstone Radar	288 30 32.4	N 42 25 27.84	
LUZONP	Luzon Island, Philippines	120 31 18.0	N 15 11 37.0	
MADRID	Madrid, Spain	356 34 48	N 40 15 36	
1MAUIO	Maui, Hawaii	203 44 23.4	N 20 42 36	10,000
MISLAK	Silver Lake, Greenville, Miss.	268 58 44	N 33 08 54	

Continued

Table II—Concluded

Station Designation	Station Location	East Longitude	Latitude	Elevation (Ft)
1NATAL	Naini Tal, India	079 25 54	N 29 22 32	6312
NELCAL	San Diego, Calif.	243 01 43.078	N 32 34 47.420	514
2NOTSS	Naval Ord Station, Calif.	242 26 23	N 35 40 37	
1OLFAN	Olifantsfontein, So. Africa	028 14 53.91	S 25 57 33.85	5066
OOMERA	Woomera, Australia	136 46 56	S 31 06 12	510
1ORGAN	Organ Pass, New Mexico	253 26 51.74	N 32 25 24.25	5417
PALOTO	Palo Alto, Calif.	237 49 29	N 37 24 11	499
PANTIG	Antigua Island, B.W.I.	298 13 16.536	N 17 08 32.586	16
1PDENA	Pasadena, Calif.	241 30 38	N 34 06 56	
PNSTAT	Penn. State Ionosph. Res. Lab.	282 08	N 40 48	1200
PONAPE	Ponape Island, Pacific	158 11 48.6	N 06 56 47.3	
PTRICO	Puerto Rico	292 54 04	N 18 03 54	
1QUIPA	Arequipa, Peru	288 30 31.4	S 16 27 43.5	8045
QUITOE	Quito, Ecuador	281 25 14.770	S 00 37 21.751	11,703
REDSTA	Red Station, Calif., JPL	243 35 05	N 33 04 19	
RNAMUR	Roi Namur Island, Pacific	165 27 37.5	N 09 23 12.1	
2RSTON	Redstone Arsenal, Ala.	273 20 08.5	N 34 40 37.9	
1SACPK	Sacramento Peak, New Mexico	254 10 47	N 32 47 28	9000
SAMOAI	Samoa Island, Pacific	189 17 12	S 14 19 50	
SANDIG	Brown Field, San Diego, Calif.	243 01 53	N 32 34 42	
1SHRAZ	Shiraz, Iran	052 31 33.75	N 29 38 40.18	5249
SILVER	Silver Sta., Singapore, JPL	103 49 00	N 01 19 00	
SNTAGO	Santiago, Chile	289 19 51.283	S 33 08 58.106	2280
1SPAIN	S. Fernando, Cadiz, Spain	353 47 36.86	N 36 27 33.83	79
STANF	Stanford Research, Calif.	237 49 29	N 37 24 11	499
STNFDU	Rad. Prop. Lab., Stanford U., Cal.	237 50 43	N 37 25 39	500
STUMNK	Stump Neck, Md., N.R.L.	282 47 47	N 38 32 44	
2TEMPL	Temple City, L.A., Calif.	241 55 25	N 34 06 08	
2THULE	Thule, Greenland	291 14 27.3	N 76 30 57.6	
1TOKYO	Tokyo, Japan	139 32 28.22	N 35 40 11.08	190
UGRAND	Grand Turk Is., Up Range	288 51 56.685	N 21 30 21.196	30
UILNOS	Univ. Illinois, Dept. Elec. Eng.	271 46 31.5	N 40 06 20.2	774
UWISCN	University Wis. Observatory	270 19 36.5	N 43 04 40.6	1220
VANBUR	Van Buren, Maine	292 00 00	N 47 11 40	
2VANBU	Van Buren, Maine	292 00 00	N 47 11 40	
1VILDO	Villa Dolores, Argentina	294 53 30	S 31 56 32	1962
WAKEIS	Wake Island, Pacific	166 36 04.4	N 19 17 58	
WANTIG	West Antigua	298 13 16.536	N 17 08 32.586	16
WHITES	White Sands, New Mexico	254 15 43.856	N 33 42 17.993	
2WHITE	White Sands, New Mexico	254 15 43.856	N 33 42 17.993	
WOTHOI	Wotho Island, Pacific	166 02	N 10 07	
1YUMA	Vincent AFB, Yuma, Arizona	245 24 53	N 32 39 09	212

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     1958 EPSILON, JULY 1958
DAY HR MIN  LONG.° M  S  LAT.° M  S       HEIGHT
26 15  7   - 74 18  6 +34  2 14   + 268.6355
26 15  8   - 70 29 37 +36 42 52   + 269.3659
26 15  9   - 66 24 22 +39 14 27   + 274.2263
26 15 10   - 62  1  4 +41 35 19   + 283.1700
26 15 11   - 57 18 49 +43 43 42   + 296.1257
26 15 12   - 52 17 19 +45 37 47   + 312.9965
26 15 13   - 46 57 12 +47 15 46   + 333.6625
26 15 14   - 41 20 13 +48 35 58   + 357.9832
26 15 15   - 35 29 23 +49 36 57   + 385.7985
26 15 16   - 29 28 57 +50 17 41   + 416.9329
26 15 17   - 23 24  9 +50 37 39   + 451.1961
26 15 18   - 17 20 45 +50 36 56   + 488.3866
26 15 19   - 11 24 23 +50 16 13   + 528.2927
26 15 20   -  5 40  3 +49 36 41   + 570.6975
26 15 21   -  0 11 37 +48 39 58   + 615.3776
26 15 22   +  4 58 17 +47 27 55   + 662.1082
26 15 23   +  9 48 16 +46  2 32   + 710.6618
26 15 24   + 14 18  1 +44 25 43   + 760.8133
26 15 25   + 18 27 59 +42 39 20   + 812.3382
26 15 26   + 22 19 13 +40 45  1   + 865.0168
26 15 27   + 25 53  1 +38 44 17   + 918.6318
26 15 28   + 29 10 54 +36 38 25   + 972.9725
26 15 29   + 32 14 24 +34 28 30   +1027.8352
26 15 30   + 35  5  0 +32 15 30   +1083.0198
26 15 31   + 37 44  7 +30  0 12   +1138.3369
26 15 32   + 40 13  4 +27 43 17   +1193.6021
26 15 33   + 42 33  0 +25 25 17   +1248.6395
26 15 34   + 44 45  2 +23  6 41   +1303.2811
26 15 35   + 46 50  6 +20 47 51   +1357.3671
26 15 36   + 48 49  5 +18 29  7   +1410.7446
26 15 37   + 50 42 46 +16 10 45   +1463.2699
26 15 38   + 52 31 50 +13 52 57   +1514.8063
 1SMRAZ 19   26 15 38   0.652
                -60.2207   2457.4291     S
26 15 39   + 54 16 55 +11 35 56   +1565.2245
26 15 40   + 55 58 36 + 9 19 48   +1614.4038
26 15 41   + 57 37 23 + 7  4 43   +1662.2294
26 15 42   + 59 13 46 + 4 50 45   +1708.5938
26 15 43   + 60 48 11 + 2 37 60   +1753.3957
26 15 44   + 62 21  2 + 0 26 32   +1796.5437
26 15 45   + 63 52 43 - 1 43 36   +1837.9475
26 15 46   + 65 23 36 - 3 52 21   +1877.5262
26 15 47   + 66 54  0 - 5 59 39   +1915.2043
26 15 48   + 68 24 18 - 8  5 29   +1950.9106
26 15 49   + 69 54 48 -10  9 49   +1984.5809
26 15 50   + 71 25 49 -12 12 36   +2016.1543
26 15 51   + 72 57 42 -14 13 47   +2045.5764
26 15 52   + 74 30 45 -16 13 21   +2072.7966
26 15 53   + 76  5 19 -18 11 14   +2097.7687
26 15 54   + 77 41 43 -20  7 24   +2120.4516
26 15 55   + 79 20 19 -22  1 45   +2140.8077
26 15 56   + 81  1 26 -23 54 15   +2158.8034
26 15 57   + 82 45 28 -25 44 48   +2174.4102
26 15 58   + 84 32 47 -27 33 19   +2187.6015
26 15 59   + 86 23 48 -29 19 40   +2198.3562
26 16  0   + 88 18 55 -31  3 44   +2206.6554
26 16  1   + 90 18 34 -32 45 21   +2212.4853
26 16  2   + 92 23 13 -34 24 22   +2215.8344
26 16  3   + 94 33 18 -36  0 34   +2216.6949
26 16  4   + 96 49 19 -37 33 43   +2215.0628
26 16  5   + 99 11 44 -39  3 35   +2210.9382
26 16  6   +101 41  1 -40 29 52   +2204.3229

26 16  7   +104 17 38 -41 52 14   +2195.2250
26 16  8   +107  1 59 -43 10 20   +2183.6531
26 16  9   +109 54 27 -44 23 45   +2169.6218
26 16 10   +112 55 19 -45 32  5   +2153.1486
26 16 11   +116  4 46 -46 34 51   +2134.2551
26 16 12   +119 22 51 -47 31 33   +2112.9671
26 16 13   +122 49 26 -48 21 41   +2089.3138
26 16 14   +126 24 12 -49  4 43   +2063.3299
26 16 15   +130  6 36 -49 40  8   +2035.0535
26 16 16   +133 55 50 -50  7 27   +2004.5289
26 16 17   +137 50 53 -50 26  9   +1971.8038
26 16 18   +141 50 29 -50 35 53   +1936.9321
26 16 19   +145 53 12 -50 36 16   +1899.9731
26 16 20   +149 57 29 -50 27  3   +1860.9920
26 16 21   +154  1 42 -50  8  5   +1820.0592
26 16 22   +158  4 16 -49 39 18   +1777.2528
26 16 23   +162  3 41 -49  0 43   +1732.6567
26 16 24   +165 58 37 -48 12 29   +1686.3622
26 16 25   +169 47 56 -47 14 46   +1638.4690
26 16 26   +173 30 45 -46  7 51   +1589.0820
26 16 27   +177  6 25 -44 52  3   +1538.3171
26 16 28   -179 25 27 -43 27 40   +1486.2970
26 16 29   -176  5  4 -41 55  7   +1433.1531
26 16 30   -172 52 23 -40 14 43   +1379.0267
26 16 31   -169 47 16 -38 26 52   +1324.0678
26 16 32   -166 49 24 -36 31 54   +1268.4358
26 16 33   -163 58 23 -34 30 10   +1212.3004
26 16 34   -161 13 46 -32 21 59   +1155.8407
26 16 35   -158 34 60 -30  7 41   +1099.2447
26 16 36   -156  1 32 -27 47 33   +1042.7108
26 16 37   -153 32 47 -25 21 52   + 986.4466
26 16 38   -151  8 10 -22 50 56   + 930.6665
26 16 39   -148 47  2 -20 15  1   + 875.5964
26 16 40   -146 28 49 -17 34 24   + 821.4662
26 16 41   -144 12 52 -14 49 21   + 768.5126
26 16 42   -141 58 33 -12  0 11   + 716.9784
26 16 43   -139 45 14 - 9  7 13   + 667.1071
26 16 44   -137 32 15 - 6 10 46   + 619.1454
26 16 45   -135 18 57 - 3 11 13   + 573.3396
26 16 46   -133  4 35 - 0  8 57   + 529.9306

26 16 46  2 -132 57 56 P      1   + 527.9405

26 16 47   -130 48 26 + 2 55 35   + 489.1562
26 16 48   -128 29 41 + 6  1 54   + 451.2451
26 16 49   -126  7 30 + 9  9 28   + 416.4145
26 16 50   -123 40 59 +12 17 41   + 384.8693
26 16 51   -121  9  6 +15 25 53   + 356.7970
26 16 52   -118 30 49 +18 33 22   + 332.3671
26 16 53   -115 44 54 +21 39 17   + 311.7269
26 16 54   -112 50  6 +24 42 44   + 295.0008
26 16 55   -109 44 60 +27 42 42   + 282.2881
 ELPHAB 37   26 16 55 50.586
                -55.1469    461.7831     N
 WHITES 31   26 16 55 55.216
                -55.5450    465.0262     N
26 16 56   -106 28  7 +30 38  5   + 273.6608
26 16 57   -102 57 54 +33 27 38   + 269.1639
26 16 58   - 99 12 44 +36  9 58   + 268.8145
 FTSILL 30   26 16 58 12.358
                +41.5578    354.2539     N
26 16 59   - 95 11  5 +38 43 35   + 272.6010
26 17  0   - 90 51 37 +41  6 51   + 280.4854

 ARKANS 29   26 17 0    1.283
                +71.1022    749.4294     N
26 17  1   - 86 13 18 +43 18  1   + 292.4019
26 17  2   - 81 15 43 +45 15 16   + 308.2607
 BELVOR 33   26 17 2   47.300
                +74.1864    954.4754     N
 ABDEEN 32   26 17 2   59.063
                +72.5874    906.9713     N
 CPCAN1 28   26 17 2    7.756
                +89.6899   1976.9807     N
26 17  3   - 75 59 17 +46 56 47   + 327.9477
26 17  4   - 70 25 28 +48 20 50   + 351.3272
26 17  5   - 64 37  2 +49 25 57   + 378.2447
26 17  6   - 58 37 60 +50 10 57   + 408.5281
26 17  7   - 52 33 26 +50 35 15   + 441.9907
26 17  8   - 46 29  2 +50 38 45   + 478.4346
26 17  9   - 40 30 33 +50 22  2   + 517.6503
26 17 10   - 34 43  8 +49 46 13   + 559.4218
26 17 11   - 29 10 57 +48 52 49   + 603.5274
26 17 12   - 23 56 53 +47 43 41   + 649.7427
26 17 13   - 19  2 33 +46 20 46   + 697.8406
26 17 14   - 14 28 30 +44 46  2   + 747.5959
26 17 15   - 10 14 23 +43  1 20   + 798.7830
26 17 16   -  6 19 17 +41  8 23   + 851.1815
 1SPAIN 17   26 17 16   1.852
                +34.9116   1011.5935     S
26 17 17   -  2 41 55 +39  8 42   + 904.5728
26 17 18   +  0 39 12 +37  3 38   + 958.7451
26 17 19   +  3 45 37 +34 54 19   +1013.4916
26 17 20   +  6 38 49 +32 41 43   +1068.6127
26 17 21   +  9 20 14 +30 26 41   +1123.9150
26 17 22   + 11 51 13 +28  9 53   +1179.2134
26 17 23   + 14 12 58 +25 51 55   +1234.3291
26 17 24   + 16 26 35 +23 33 15   +1289.0925
26 17 25   + 18 33  4 +21 14 18   +1343.3417
26 17 26   + 20 33 17 +18 55 23   +1396.9218
26 17 27   + 22 28  2 +16 36 48   +1449.6866
26 17 28   + 24 18  2 +14 18 45   +1501.4972
26 17 29   + 26  3 56 +12  1 26   +1552.2232
26 17 30   + 27 46 19 + 9 45  0   +1601.7404
26 17 31   + 29 25 43 + 7 29 35   +1649.9332
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26 23  6  - 47 14 54 - 2 21  5  +1836.9855
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 SANDIG 36  27 0  37  1.478
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27  0 38  -113 29 14 +38 40 24  + 903.5155
27  0 39  -110 10 50 +36 33 46  + 957.6770
27  0 40  -107  6 55 +34 23  5  +1012.4185
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27   2  4   +104 44 30 +21 37 54   + 317.0252
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27   4 15   +177 26 36 +45  1 54   + 721.7680
27   4 16   -178 14 46 +43 18  7   + 772.2379
27   4 17   -174 15 29 +41 25 42   + 824.0356
27   4 18   -170 34 19 +39 26 16   + 876.9412
27   4 19   -167  9 45 +37 21 10   + 930.7395
27   4 20   -164  0 16 +35 11 37   + 985.2206
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27   4 24   -153 23 39 +26  6 54   +1206.0088
27   4 25   -151  8 19 +23 47 27   +1260.9925
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27   4 27   -146 58 45 +19  7 55   +1369.5102
27   4 28   -145  2 47 +16 48 27   +1422.7349
27   4 29   -143 11 40 +14 29 32   +1475.0766
27   4 30   -141 24 47 +12 11 21   +1526.4009
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27 21 40  + 53 22  4 -50 31 25  +2000.3370
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27 21 42  + 61 21 18 -50 33 33  +1931.9965
27 21 43  + 65 22 48 -50 20 33  +1894.6751
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27 21 45  + 73 21 49 -49 25 50  +1814.0617
27 21 46  + 77 16 27 -48 44 13  +1770.9217
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27 21 50  + 91 57 20 -44 26 52  +1581.5639
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27 21 55  +107 35 57 -36  4  2  +1315.5412
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27 21 57  +113  3 18 -31 55 12  +1203.5719
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27 22 10  +142 57 25 + 3  0 55  + 523.7496
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27 22 30  -138 46 55 +50 35 29  + 413.5439
27 22 31  -132 39  3 +50 38 39  + 447.4006
27 22 32  -126 37  2 +50 21 13  + 484.2095
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27 22 35  -109 53 54 +47 38 34  + 610.2300
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27 22 39  - 92  8 27 +40 54  8  + 806.3554
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 ARKANS 29  27 22 39 22.114
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27 22 40  - 88 29 51 +38 51 54  + 858.9098
27 22 41  - 85  7 42 +36 44 14  + 912.4344
27 22 42  - 82  0 25 +34 32 19  + 966.7179
 FTSTEW 48  27 22 42 10.270
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 CPCAN1 28  27 22 42 28.620
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 1JUPTR 14  27 22 42 38.605
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27 22 43  - 79  6 27 +32 17  8  +1021.5540
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 SANDIG 36  28 0  29 59.632
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 1CHILK 26  28 0  29 47.988
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28  0 47   - 79 31 21 + 0 16 55   +1739.4057
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28  0 48   - 77 58  8 - 1 55  4   +1783.1802
 LIMAPU 45  28 0  48 31.841
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28  2 46   - 93 40 19 -18 17  5   +2059.2786
28  2 47   - 92  2 45 -20 14 14   +2085.5101
28  2 48   - 90 23  2 -22  9 28   +2109.4668
28  2 49   - 88 40 49 -24  2 41   +2131.1078
28  2 50   - 86 55 44 -25 53 50   +2150.3986
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28  2 52   - 83 15 25 -29 29 27   +2181.8041
28  2 53   - 81 19 21 -31 13 42   +2193.8677
28  2 54   - 79 18 49 -32 55 23   +2203.4767
28  2 55   - 77 13 21 -34 34 20   +2210.6147
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28  2 57   - 72 45 48 -37 43 11   +2217.4303
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28   3 11   - 27 57 23 -50 35 51   +1989.2657
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28   3 13   - 19 57  1 -50 27  8   +1919.4364
28   3 14   - 15 56 22 -50  8 37   +1881.4024
28   3 15   - 11 57 26 -49 40 34   +1841.3777
28   3 16   -  8  1 39 -49  3  2   +1799.4381
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28   3 22   + 13 30 48 -42  9 55   +1512.6490
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28   3 24   + 19 43 55 -38 47 56   +1406.2961
28   3 25   + 22 39 43 -36 56 24   +1351.6911
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28   3 34   + 45  0 46 -15 50 28   + 848.3938
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28   3 36   + 49 24 32 -10 16 40   + 742.6283
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28   3 58   +122 27 11 +48 55 38   + 339.4917
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28   4 17   -153 55 19 +24  2 43   +1206.4486
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28   4 21   -145 49 43 +14 37 26   +1423.3489
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28   6 16   -165 24 45 + 3 26 48   +1663.8511
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28   7 14   - 11 26  2 -16 39 45   + 871.4615
28   7 15   -  9 13 23 -13 56 20   + 817.4487
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28   7 19 48 +  1 17 56 P    22    + 578.9436

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28   7 22   +  6 15 12 + 6 41  8   + 486.6611
28   7 23   +  8 36 21 + 9 46 43   + 449.0477
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28   7 26   + 16 11 39 +19  5  7   + 355.5536
28   7 27   + 18 57 41 +22  9 24   + 331.4502
28   7 28   + [illegible]
28   7 29   + 24 58 53 +28  9 52   + 294.7294
28   7 30   + 28 17  1 +31  3 55   + 282.3288
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28   7 32   + 35 36 23 +36 33 16   + 269.7948
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28   8 25   -161 [illegible]
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28 14 38  -115 30  8 - 7  6 46   + 704.2958
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28 14 41  -108 55 38 + 1 47 14   + 562.4726
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 ARKANS 29  28 22 31 57.537
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 NELCAL 42  30 0  14 45.417
                +28.2562   936.1401     S
 SANDIG 36  30 0  14 45.494
                +28.2499   936.1671     S
 1CHILK 26  30 0  14 32.805
                + 7.9960   833.6674     S
30  0 15   -116 11 20 +35 34 47   + 851.0903
 1YUMA  27  30 0  15 30.632
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30  0 16   -113  6 25 +33 17 30   + 904.5180
30  0 17   -110 14 34 +30 57 14   + 958.7490
30  0 18   -107 34 18 +28 34 50   +1013.5755
 ELPHAB 37  30 0  18 13.424
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 WHITES 31  30 0  18 19.558
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 1ORGAN 13  30 0  18 23.976
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30  0 20   -102 43 11 +23 46 16   +1124.2162
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 FTSILL 30  30 0  21 59.651
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30  0 24   - 94 28  9 +14  7 25   +1344.2469
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30  0 27   - 89  6 58 + 7  1 19   +1502.9304
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 CPCAN1 28  30 0  32 15.454
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30  0 33   - 79 26  3 - 6 32 22   +1787.9257
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 LIMAPU 45  30 0  34 27.522
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31  0  6  -118 32 21 +35 33 27  + 811.2716
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             - 6.3646   829.4544    S
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             +12.1472   828.5783    S
31  0  7  -115 24 49 +33 15 31  + 864.1172
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31  0  8  -112 30 33 +30 54 27  + 917.8103
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31 21 34  +130 34 10 - 1 11 32  + 714.8302

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31 21 37  +137  9 17 + 7 39  8  + 571.7439
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1  3 22  +105 53 14 +47  4 34   + 274.7111
1  3 23  +111 36 12 +48 26  6   + 284.9538
1  3 24  +117 34 56 +49 27 58   + 299.1402
1  3 25  +123 45  1 +50  8 46   + 317.1726
1  3 26  +130  0 52 +50 27 49   + 338.9303
1  3 27  +136 16 10 +50 24 55   + 364.2736
1  3 28  +142 24 41 +50  0 38   + 393.0448
1  3 29  +148 20 52 +49 16 11   + 425.0694
1  3 30  +154  0 22 +48 13 16   + 460.1614
1  3 31  +159 20 18 +46 53 51   + 498.1210
1  3 32  +164 19  8 +45 20  7   + 538.7413
1  3 33  +168 56 35 +43 34 10   + 581.8072
1  3 34  +173 13 11 +41 38  1   + 627.0986
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1   3 39   -169 47 17 +30 21 28   + 879.1144
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2  2 54   + 44  3  3 - 2 19 46   + 784.7521

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3  1  8   + 108 30 57 +38  5 57   + 294.3430
3  1  9   + 112 45 51 +40 30 25   + 281.5162
3  1 10   + 117 20 54 +42 43 60   + 272.7027
3  1 11   + 122 17  1 +44 44 40   + 267.9500
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3  1 15   + 145 15 44 +49 56 57   + 289.5811
3  1 16   + 151 33 13 +50 23 49   + 304.9352
3  1 17   + 157 52 60 +50 28 22   + 324.0975
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3  1 22   - 173 15 36 +45 46 30   + 472.0658

3  1 23   - 168 27 28 +44  1 42   + 510.8713
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3  1 26   - 156  7 23 +37 47 49   + 642.0583
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3  1 28   - 149 23 19 +33  6  1   + 739.6172
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3  1 31   - 140 57 57 +25 39 31   + 896.6275
3  1 32   - 138 30 22 +23  7 46   + 950.9293
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3  1 34   - 133 59  3 +18  3 32   +1061.2096
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3  1 36   - 129 52 55 +13  1  7   +1172.3937
3  1 37   - 127 57 12 +10 31 23   +1227.8511
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3  1 41   - 120 47 39 +  0 47  9   +1444.7709
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3   6 27   -  6 51 33 +  6 48 60  + 689.8325
3   6 28   -  4 37 33 +  9 44 50  + 641.4174
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3   6 30   +  0  5 27 +15 39 41   + 550.5639
3   6 31   +  2 36 25 +18 37 36   + 508.6087
3   6 32   +  5 15 14 +21 34 58   + 469.2871
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3   6 39   + 29 28 56 +40 38 17   + 286.0290
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3   6 41   + 39  2 17 +44 51  0   + 268.4865
3   6 42   + 44 20 43 +46 11 13   + 266.1936
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3 18 19   +  2 57  7 -18  2  4   +1810.0278
3 18 20   +  4 41 33 -20  5 49   +1850.5599
3 18 21   +  6 27 57 -22  6 60   +1889.1991
3 18 22   +  8 16 41 -24  5 32   +1925.8693
3 18 23   + 10  8  9 -26  1 20   +1960.5010
3 18 24   + 12  2 44 -27 54 19   +1993.0304
3 18 25   + 14  0 49 -29 44 21   +2023.3986
3 18 26   + 16  2 49 -31 31 20   +2051.5529
3 18 27   + 18  9  8 -33 15  6   +2077.4437
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3 18 28   + 20 20 12 -34 55 29   +2101.0273
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3 18 38   + 47 51  2 -47 41 16   +2203.3356
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3 18 40   + 54 44  5 -49  5 53   +2193.8162
3 18 41   + 58 19 32 -49 37 16   +2185.2067
3 18 42   + 61 59 54 -50  0 54   +2174.2625
3 18 43   + 65 44  9 -50 16 31   +2160.7524
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3 18 46   + 77  8 27 -50 13 15   +2105.5258
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3 19 29  -164 17  5 +41  6 42   + 283.6816
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BELVOR 36   3  19 44 58.142
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CPCAN1 35   3  19 44  6.345
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ABDEEN 39   3  19 45 14.642
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3 23 32  -111 22 44 +21 58 27   + 933.7705
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4  5 43  - 99 35 21 -50 20 47  +2161.9255
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4  5 46  - 88 11 53 -50  6 25  +2107.1830
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4   8 23   + 23 18 19 +48 38 20   + 269.2630
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4   8 26   + 41 57 36 +50 27 34   + 299.7304
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4   9 28   -135 47  0 -49  8 58   +2058.9431
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4  10  1   - 53 14  4 +20 24 47   + 497.6151
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4  10  3   - 47 39  5 +26 12 58   + 424.2117
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4 17 11   +173 54 20 - 7 20 17   + 992.7196
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4 17 13 41 +179 19 57 P  119     + 845.4634

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4 17 32   -120  9 47 +47 42 45   + 267.2013
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WAKEIS 34   4  19 10 19.512
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4 22 53   +118 45  6 +27 23 56  + 423.4266
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4 22 57   +132 47  9 +38  7 48  + 316.2697
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4 23  3   +163 18 19 +49  6 53  + 269.5122
4 23  4   +169 28  6 +49 55 37  + 275.7821
4 23  5   +175 47  2 +50 22 25  + 286.0313
4 23  6   -177 51 10 +50 26 44  + 300.1894
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4 23  8   -165 25 13 +49 29 13  + 339.8397
4 23  9   [illegible]
4 23 10   -153 58 38 +47 12 13  + 393.7420
4 23 11   -148 45 54 +45 38 48  + 425.6475
4 23 12   -143 55  6 +43 51 43  + 460.6167
4 23 13   -139 25 57 +41 53  8  + 498.4554
4 23 14   -135 17 28 +39 45  3  + 538.9592
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4 23 16   -127 56 23 +35  7 27  + 627.1072
4 23 17   -124 40 20 +32 40 53  + 674.3116
4 23 18   -121 38 18 +30 10 47  + 723.3056
4 23 19   -118 48 41 +27 38  9  + 773.8635
NELCAL 41   4   23 19 41.294
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4 23 24   -106 58 52 +14 42 23  +1042.4192
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JOHNIS 33   5  3   0 44.824
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5 21 40   - 49 56 19 -25  4 34   +1860.7532
5 21 41   - 48  0 42 -27  1 14   +1899.0157
5 21 42   - 46  1 47 -28 54 47   +1935.2804
5 21 43   - 43 59  9 -30 45  5   +1969.4787
5 21 44   - 41 52 24 -32 32  0   +2001.5479
5 21 45   - 39 41  6 -34 15 23   +2031.4305
5 21 46   - 37 24 52 -35 55  4   +2059.0741
5 21 47   - 35  3 16 -37 30 50   +2084.4316
5 21 48   - 32 35 55 -39  2 28   +2107.4597
5 21 49   - 30  2 28 -40 29 44   +2128.1203
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5 21 51   - 24 35 58 -43 10  4   +2162.2091
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5 21 53   - 18 41 50 -45 29 24   +2186.4768
5 21 54   - 15 34 10 -46 30 22   +2194.8766
5 21 55   - 12 19 34 -47 25  3   +2200.7678
5 21 56   -  8 56 16 -48 13  5   +2204.1398
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5 21 58   -  1 57 35 -49 27 52   +2203.3059
5 21 59   +  1 40 24 -49 53 58   +2199.0992
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5 22 11   + 44 51 45 -44 35 45   +1957.3232
5 22 12   + 47 57  6 -43 20  8   +1922.1934
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5 22 31   + 91 21 36 -  3 41 55   + 974.0038
5 22 32   + 93 20 59 -  0 59 25   + 918.9191

5 22 32 [illegible] P   135     + 899.2741

5 22 33   + 95 22  9 +  1 45 41   + 864.5953
5 22 34   + 97 25 48 +  4 33  5   + 811.2572
5 22 35   + 99 32 34 +  7 22 31   + 759.1330
5 22 36   +101 43 16 +10 13 38   + 708.4554
5 22 37   +103 58 41 +13  6  2   + 659.4578
5 22 38   +106 19 46 +15 59 16   + 612.3745
5 22 39   +108 47 33 +18 52 48   + 567.4374
5 22 40   +111 23  8 +21 45 59   + 524.8753
5 22 41   +114  7 48 +24 38  8   + 484.9106
5 22 42   +117  2 57 +27 28 22   + 447.7571
5 22 43   +120 10  7 +30 15 43   + 413.6193
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5 22 45   +127  7 12 +35 37  4   + 355.1391
5 22 46   +131  0 41 +38  8 16   + 331.1319
5 22 47   +135 13  5 +40 30 58   + 310.8063
5 22 48   +139 45 55 +42 43 17   + 294.2810
5 22 49   +144 40 10 +44 43  9   + 281.6526
5 22 50   +149 56  6 +46 28 25   + 272.9936

5 22 51   +155 32 53 +47 56 53   + 268.3527
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5 22 55   -179 38 59 +50 26 45   + 290.0533
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5 22 59   -155 39 47 +47 10 41   + 373.4555
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5 23  4   -133  1 39 +37 21  8   + 551.7843
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5 23 12   -110 31 43 +16 53 57   + 949.6592
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5 23 14   -106 20 23 +11 41  8   +1059.7902
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5 23 16   -102 27 20 +  6 33 15   +1170.8227
5 23 17   -100 35 54 +  4  1 46   +1226.1999
5 23 18   - 98 47  3 +  1 32  9   +1281.2446
5 23 19   - 97  0 15 -  0 55 27   +1335.7885
5 23 20   - 95 14 60 -  3 20 53   +1389.6689
5 23 21   - 93 30 48 -  5 44  5   +1442.7330
5 23 22   - 91 47 13 -  8  4 55   +1494.8364
5 23 23   - 90  3 51 -10 23 20   +1545.8409
5 23 24   - 88 20 15 -12 39 15   +1595.6186
5 23 25   - 86 36  2 -14 52 37   +1644.0474
5 23 26   - 84 50 49 -17  3 19   +1691.0140
5 23 27   - 83  4 12 -19 11 20   +1736.4113
5 23 28   - 81 15 49 -21 16 34   +1780.1400
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5 23 30   - 77 32  8 -25 18 23   +1862.2280
LIMAPU 45   5  23 30 13.097
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5 23 32   - 73 36 38 -29  8  2   +1936.6128
5 23 33   - 71 33 26 -30 58  1   +1970.7356
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5 23 34   - 69 26  4 -32 44 35   +2002.7263
5 23 35   - 67 14  7 -34 27 36   +2032.5283
1VILDO 18   5  23 35 54.882
                -16.1769  2121.0423    S
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5 23 37   - 62 34 49 -37 42 11   +2085.3612
5 23 38   - 60  6 40 -39 13 21   +2108.3024
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5 23 40   - 54 51 37 -42  2 10   +2147.0440
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5 23 52   - 14 27 57 -50 23 44   +2170.9086
5 23 53   - 10 41 28 -50 16 12   +2156.5890
5 23 54   -  6 56  5 -50  0 17   +2139.8070
5 23 55   -  3 12 60 -49 36  6   +2120.5874
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5 23 57   +  4  1 54 -48 23 22   +2074.9571
5 23 58   +  7 31 54 -47 35 15   +2048.6166
5 23 59   + 10 56  3 -46 39 38   +2019.9825
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6  0  2   + 20 29 27 -43 10 45   +1920.8149
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6  0 25   + 71 55 42 + 7 39 11   + 757.2160
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6  0 35   + 99 38 12 +35 51 10   + 354.2084
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6  0 39   +117 18 11 +44 53 17   + 281.2823
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6  0 43   +140 22 42 +49 58 44   + 271.4096
6  0 44   +146 43  1 +50 23 41   + 279.0054
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6  1  5   -131 59  8 + 8 50 19   +1117.4002
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6  2 42   +164  7 37 +41 24 19   + 474.6581
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6 15  3  -153  3  7 + 4 26 36  + 842.7578
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6 19 13  - 78 31 55 +37  0  5  + 531.4430
BPOINT 49  6  19 13 25.019
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ABDEEN [illegible]
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BELVOR 36  6  19 13 24.309
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7 14 13   + 99 44 29 -48 20 49   +2197.2105
7 14 14   +103 13 23 -49  0 39   +2202.3739
7 14 15   +106 47 34 -49 33  4   +2205.0106
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7 15  4   -119 11 28 +39 14  1   + 348.8950
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7 15  6   -110 11 29 +43 37 40   + 306.5181
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7 16 43   -178 41 12 + 9 29 40   + 792.7838
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7 17 45   + [illegible]
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PANTIG 40   7   19 7  28.949
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8  1 49   +  35 42 16 + 0 32 46   + 983.3092
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1BLOEM 24   9  17 22 43.248
                -49.5050  2783.3204     S
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JOBURG 39   9  17 23 23.798
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1OLFAN 17   9  17 23 23.922
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9 17 29   + 46 52 50 -49 20 16   +2181.4145
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9 17 37   + 76 29 35 -49 19 43   +2169.5684
9 17 38   + 80  3 19 -48 43 26   +2156.7873
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9 17 40   + 86 54 25 -47  8 37   +2123.8407
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9 17 42   + 93 20 16 -45  6  6   +2081.2257
9 17 43   + 96 23  4 -43 55 16   +2056.3753
9 17 44   + 99 19  2 -42 38 29   +2029.2157
9 17 45   +102  8 17 -41 16  1   +1999.7929
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9 18  9   +152 13 18 +11 29 56   + 840.5403
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9 18 29   -123 37  3 +50  8 16   + 272.6731
9 18 30   -117 23 36 +49 26 57   + 281.3913
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FTSTEW 48   9  18 37 20.417
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CPCAN1 35   9  18 37 35.280
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9 18 38   - 79  7 32 +34 20 15   + 483.3220
BPOINT 49   9  18 38 36.347
                -55.0680   826.8116     S
ABDEEN 37   9  18 38 54.886
                -62.8969  1010.4574     S
BELVOR 36   9  18 38 35.564
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9 20 18   -156 30 38 +50 25 25   + 268.3797
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10 16 23   -119  4 29 +49 38 41   + 278.6374
10 16 24   -112 48 14 +50 14 52   + 270.9931
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10 16 33  - 61 55 57 +40 11 26  + 379.5297
10 16 34  - 57 51 44 +37 50 26  + 409.9691
10 16 35  - 54  6  9 +35 21 56  + 443.5864
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10 16 38  - 44 23 15 +27 26 20  + 561.5739
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10 16 41  - 36 26 11 +19  9  8  + 700.8054
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10 16 44  - 29 38 33 +10 50 54  + 855.2110
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10 16 46  - 25 31 56 + 5 24 36  + 963.5584
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10 16 54  - 10 27 23 -14 48 50  +1404.0426
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10 17 10  + 26 22 39 -44 12  5  +2063.6185
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10 17 11  + 29 27  1 -45 21 30  +2087.8165
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10 17 59  +157 27 38 +19 27 43  + 732.3053
10 18  0  +159 56 34 +22 12 38  + 682.8664
10 18  1  +162 34 22 +24 56 54  + 635.1921
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10 18  3  +168 22  3 +30 20 23  + 546.0440
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10 19 49  +130 14 56 +20  6 58  + 723.4114
10 19 50  +132 45 43 +22 51 39  + 674.2721
10 19 51  +135 25 40 +25 35 32  + 626.9374
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10 21 56  -178 59  4 +50  0  3  + 269.5267
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11 15 21  +103 44 54 -49  2 19  +2172.2312
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11 19 17   + 92 57 43 -25 35 60   +1729.2435
11 19 18   + 94 55 33 -23 32 53   +1684.4264
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11 19 23   +104 13 13 -12 29 55   +1438.7448
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11 19 47   +170 43  2 +46 36  2   + [illegible]
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11 20 10   - 86 44 45 +11 24  7   + 798.6737
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12 13 49  -156 56 57 + 9 54 56  + 989.8934
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12 14 10  - 71 30 60 +50  6 53  + 267.3951
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 1OLFAN 14  12 14 43 33.949
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12 19 11  +106 33 32 - 7 59 46  +1387.6090
12 19 12  +108 20 16 - 5 35  2  +1334.2294
12 19 13  +110  7 41 - 3  7 49  +1280.1624
12 19 14  +111 56 17 - 0 38 15  +1225.5675

12 19 14 15 +112 24 12 P  225   +1211.6479

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12 19 17  +117 34 20 + 7  3 19  +1060.3464
12 19 18  +119 33  3 + 9 40 51  +1005.4086
12 19 19  +121 35 55 +12 19 50  + 950.8649
12 19 20  +123 43 42 +14 59 59  + 896.9211
12 19 21  +125 57 14 +17 40 55  + 843.7883
12 19 22  +128 17 31 +20 22 15  + 791.6831
12 19 23  +130 45 36 +23  3 27  + 740.8257
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12 19 29  +149 34 27 +38 25 47  + 474.3704
12 19 30  +153 37 52 +40 41 49  + 438.4487
12 19 31  +158  1 34 +42 48 44  + 405.5013
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12 19 36  -174 42  4 +49 53 18  + 291.3042
12 19 37  -168 24 22 +50 21 35  + 279.5247
12 19 38  -162  0 47 +50 27 27  + 271.6566
12 19 39  -155 38  3 +50 10 34  + 267.7514
12 19 40  -149 22 44 +49 31 21  + 267.8359
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12 19 55  - 90 37 10 +14 52 36  + 696.2216
12 19 56  - 88 21 22 +12  3  2  + 746.0610
12 19 57  - 86 10 46 + 9 14 32  + 797.3679
12 19 58  - 84  4 31 + 6 27 31  + 849.9141
12 19 59  - 82  1 50 + 3 42 19  + 903.4749
 CPCAN1 33  12 19 59 42.813
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12 23  2   + 74 14  5 +22  0 40   + 766.7070
12 23  3   + 76 47 13 +24 41 14   + 716.5446
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12 23  5   + 82 24 13 +29 58 13   + 621.1815
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12 23  7   + 88 52 20 +35  3 46   + 533.9220
12 23  8   + 92 29 47 +37 29 24   + 493.8792
12 23  9   + 96 25 14 +39 48 24   + 456.5093
12 23 10   +100 40 20 +41 59  3   + 422.0129
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12 23 12   +110 14 41 +45 47 34   + 362.3922
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12 23 39   -136 20 13 + 2  1 19   + 930.0497
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13 23  3   +139 17 11 +50 28  1    + 280.7770
13 23  4   +145 40 27 +50 18 42    + 272.3485
13 23  5   +151 58 47 +49 46 50    + 267.8811
13 23  6   +158  6  5 +48 53 17    + 267.4073
13 23  7   +163 57 24 +47 39 29    + 270.9345
13 23  8   +169 29 19 +46  7 19    + 278.4461
13 23  9   +174 39 59 +44 18 57    + 289.9004

13 23 10   +179 28 51 +42 16 33    + 305.2313
13 23 11   -176  3 35 +40  2 18    + 324.3493
13 23 12   -171 56 11 +37 38 13    + 347.1424
13 23 13   -168  7 22 +35  6  8    + 373.4777
13 23 14   -164 35 22 +32 27 41    + 403.2037
13 23 15   -161 18 24 +29 44 18    + 436.1509
13 23 16   -158 14 45 +26 57 15    + 472.1345
13 23 17   -155 22 43 +24  7 36    + 510.9570
13 23 18   -152 40 52 +21 16 17    + 552.4092
13 23 19   -150  7 48 +18 24  7    + 596.2741
13 23 20   -147 42 19 +15 31 46    + 642.3276
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13 23 22   -143  9 44 + 9 48 51    + 740.0849
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13 23 36   -115  1  1 -25 44 28    +1496.0171
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13 23 41   -103 31 42 -35 34  5    +1735.0440
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13 23 44   - 95 35 52 -40 30 13    +1858.6683
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13 23 46   - 89 46 43 -43 19 41    +1931.3471
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14   1  2   + 161 35 14 +36 48 52   + 354.0259
14   1  3   + 165 18 25 +34 14 26   + 381.3134
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14   4 16   - 11 58 24 +19 53 15   + 859.6396
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14   4 21   +  1 40 47 +32 54 55   + 611.7030
14   4 22   +  5  1 44 +35 23 25   + 567.4204
14   4 23   +  8 38 55 +37 46 46   + 525.4225
14   4 24   + 12 34  6 +40  3 31   + 485.9239
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14   4 36   + 80 36 25 +47 40 12   + 270.0110
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14 15 35   - 80 13 17 +46  3 59   + 274.4327
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 ABDEEN 34   14 15 35 48.184
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14 15 48   - 35  2 33 +12 23 24   + 668.9593
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14 17 37   - 64 17 44 +14 15 11   + 635.4556
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15 13 50  +  5 20 14 - 5 36 13   + 965.8394
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15 13 53  + 11 18  8 -13 25 37   +1132.2636
15 13 54  + 13 18 23 -15 55 20   +1187.6614
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15 17 11   -103 22 12 +44 12 14   + 277.9235
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15 18 22   + 95 17 21 -19 12 22   +1761.6595
15 18 23   + 97  3  0 -17  5 19   +1718.6463
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15 18 27   +103 54 59 - 8 11 56   +1532.0290
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16 12 36   +174 23 52 -23  5 25   +1867.7752
16 12 37   +176 12 24 -21  4 23   +1829.8874
16 12 38   +177 58 46 -19  0 41   +1790.1118
16 12 39   +179 43 19 -16 54 26   +1748.5303
16 12 40   -178 33 33 -14 45 40   +1705.2284
16 12 41   -176 51 28 -12 34 28   +1660.3003
16 12 42   -175 10  3 -10 20 53   +1613.8459
16 12 43   -173 28 55 - 8  4 59   +1565.9715
16 12 44   -171 47 41 - 5 46 50   +1516.7915
16 12 45   -170  5 55 - 3 26 31   +1466.4272
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16 12 49   -163  4 44 + 6 14 43   +1255.8227
16 12 50   -161 13 25 + 8 44 25   +1201.6262
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16 12 57   -145 51 30 +26 37  3   + 824.3612
16 12 58   -143  8  8 +29  9  6   + 773.1216
16 12 59   -140 13 12 +31 39  3   + 723.1760
16 13  0   -137  5  8 +34  5 60   + 674.7432
16 13  1   -133 42 15 +36 28 51   + 628.0434
16 13  2   -130  2 51 +38 46 22   + 583.2961
16 13  3   -126  5 12 +40 57  6   + 540.7245
16 13  4   -121 47 44 +42 59 22   + 500.5377
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16 13  5   -117  9 11 +44 51 16   + 462.9470
16 13  6   -112  8 52 +46 30 45   + 428.1546
16 13  7   -106 46 60 +47 55 39   + 396.3539
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16 13 12   - 76 14 33 +50 12 60   + 288.0520
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16 13 13   - 70  0 21 +49 35 19   + 277.4683
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 JOBURG 39  16 13 45 59.209
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16 13 48  + 33 16 10 -35 45 41  +1613.8783
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16 16 29  +142 56 47 + 8 17 31  +1218.8193
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16 18 15  +108 47 52 - 0 28 56  +1413.5076

16 18 15 12 +109  8 51 P  277   +1402.9649

16 18 16  +110 32  4 + 1 55 33  +1361.1568
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16 18 21  +119 53 47 +14 22 45  +1091.0160
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16 18 23  +124  9 32 +19 29 29  + 982.2166
16 18 24  +126 27 17 +22  3 20  + 928.4032
16 18 25  +128 52 58 +24 36 54  + 875.2505
16 18 26  +131 27 47 +27  9 40  + 822.9658
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16 18 28  +137 10  5 +32  9 58  + 721.8581
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16 18 30  +143 46 12 +36 57 21  + 626.8218
16 18 31  +147 28 38 +39 13 19  + 582.1310
16 18 32  +151 29 36 +41 22 14  + 539.6163
16 18 33  +155 50 39 +43 22 21  + 499.4926
16 18 34  +160 32 55 +45 11 47  + 461.9698
16 18 35  +165 36 59 +46 48 27  + 427.2492
16 18 36  +171  2 22 +48 10  8  + 395.5240
16 18 37  +176 47 27 +49 14 40  + 366.9752
16 18 38  -177 10 56 +50  0  3  + 341.7707
16 18 39  -170 57 27 +50 24 37  + 320.0633
16 18 40  -164 37 52 +50 27 17  + 301.9876
16 18 41  -158 18 44 +50  7 35  + 287.6598
16 18 42  -152  6 28 +49 25 50  + 277.1743
16 18 43  -146  6 42 +48 23  0  + 270.6036
16 18 44  -140 23 45 +47  0 36  + 267.9972
16 18 45  -135  0 28 +45 20 31  + 269.3792
16 18 46  -129 58 13 +43 24 51  + 274.7495
16 18 47  -125 17 13 +41 15 44  + 284.0822
16 18 48  -120 56 45 +38 55 13  + 297.3272
 NELCAL 42   16 18 48 59.179
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16 18 50  -113 11 59 +33 47 34  + 335.2300
16 18 51  -109 44 20 +31  3 45  + 359.6687
16 18 52  -106 30 51 +28 15 10  + 387.5836
16 18 53  -103 29 51 +25 23  3  + 418.8145
16 18 54  -100 39 46 +22 28 26  + 453.1834
16 18 55  - 97 59  8 +19 32 17  + 490.4989
16 18 56  - 95 26 40 +16 35 21  + 530.5555
16 18 57  - 93  1  9 +13 38 23  + 573.1380
16 18 58  - 90 41 33 +10 41 56  + 618.0245
16 18 59  - 88 26 51 + 7 46 34  + 664.9864
16 19  0  - 86 16 12 + 4 52 42  + 713.7920
16 19  1  - 84  8 48 + 2  0 45  + 764.2080
16 19  2  - 82  3 55 - 0 48 56  + 816.0008
16 19  3  - 80  0 53 - 3 36  4  + 868.9407
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16 19  4  - 77 59  1 - 6 20 23  + 922.7998
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16 19  7  - 71 54 52 -14 14 15  +1087.7025
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16 19  8  - 69 52  6 -16 45 12  +1143.0813
16 19  9  - 67 47 47 -19 12 22  +1198.3359
16 19 10  - 65 41 24 -21 35 36  +1253.2812
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16 19 14  - 56 45 15 -30 25 55  +1466.5696
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16 19 28  - 13 51 21 -49 30 41  +2029.5777
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16 19 56  + 66 27 50 -19 38 53  +1815.0483
16 19 57  + 68 12 32 -17 33 48  +1774.5949
16 19 58  + 69 55 41 -15 26 13  +1732.3670
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16 20  4  + 80  3 25 - 1 51 55  +1447.2163

16 20  4 46 + 81 24  8 P  278   +1406.7066

16 20  5  + 81 46 34 + 0 31 18  +1395.4508
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16 20  7  + 85 18 25 + 5 23 21  +1289.4708
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16 20 22  +125 27 31 +42 11 51  + 525.4475
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16 21  5  - 81  3 24 -33 16 35  +1534.9692
16 21  6  - 78 31 50 -35 10 35  +1584.2032
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17  0 28  -171 11 38 + 7  7 14  + 667.2656
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17 20  3  +111 28  8 +34 16 10  + 720.8843
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17 20  5  +118 26 22 +38 52 17  + 625.9202
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17 23 28 15 + 25 17 15 P   293    +1462.6672

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18 15 28   + 80 44 44 -46 45 47   +2167.1684
18 15 29   + 83 55 12 -45 46  0   +2170.4754
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18 15 31   + 89 53 17 -43 29 10   +2169.5922
18 15 32   + 92 41  5 -42 12 53   +2165.4071
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18 15 34   + 97 55 25 -39 26 21   +2149.5922
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18 16 31   - 81 21  6 +29 22 19   + 340.2305
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18 16 32   - 78 13  3 +26 29 24   + 365.6208
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18 19  2  +  7 31  7 -50  2 38   +2109.7410
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20 20 10  - 53 30 55 -47 32 57  +1792.3833
20 20 11  - 49 47 22 -48 23 60  +1831.3750
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20 20 27  +  7 42  6 -42 41 49  +2162.1295
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20 23 16  +164 11 12 +31 33 22  + 293.3151
20 23 17  +167 32 17 +28 42 16  + 311.2449
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20 23 19  +173 35 12 +22 47 55  + 359.3256
20 23 20  +176 22 57 +19 46 51  + 383.2114
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24 19 39 35 + 51 13 33 P   383    +1757.0419

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24 20  9   +151 14 58 +49  8 29   + 372.3785
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24 20 12   +167 44 42 +44 53 22   + 303.8455
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24 22 23   -155 37 30 -16 56  6   + 778.5933
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25   7 13   + 22 17 31 +33 40 40   + 264.1720
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25   7 55   +151 19 33 -49 15 38   +196[illegible]
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28 12 36  +103 42  6 -35 38  3   +2109.0217
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28 12 51  +129 57 28 - 7 36 21   +1993.8193
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28 15 12   -166 59 34 +50 24 45   + 555.2466
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28 16 57   +141 52 23 +48 15 43   + 754.3289
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28 17  8   -157 55 22 +42 28 55   + 337.0228
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31 11 48  +131 14 56 - 8 31 51   +2071.7901
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31 11 50  +134  9 55 - 4 28 15   +2034.0667
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31 11 52 10 +137 19 40 P  471     +1982.7505

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31 11 57  +144 37 48 +10  9 20   +1833.0444
31 11 58  +146 14  7 +12 17 14   +1796.2211
31 11 59  +147 53 18 +14 25 31   +1757.5578
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31 12  1  +151 22 13 +18 42 54   +1675.0174
31 12  2  +153 13  4 +20 51 40   +1631.3083
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31 12  4  +157 10 39 +25  8 27   +1539.4787
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31 12 16  -165  7 36 +47 17 41   + 916.7372
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31 12 24  -121 53 37 +48 52 57   + 531.2525
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31 13 14  + 53 13  2 -47 12 59   +1817.2037
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31 13 19  + 69  5 53 -41  6 33   +1977.2097
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31 13 27  + 87 15 36 -27 56 51   +2116.5427
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31 13 32  + 95 51 42 -18 36 32   +2125.8916
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31 13 35  +100 29 28 -12 45  2   +2102.5005
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31 13 37  +103 27 18 - 8 45 29   +2075.0088
31 13 38  +104 54 60 - 6 44 17   +2057.7573
31 13 39  +106 22 16 - 4 42 11   +2038.2042
31 13 40  +107 49 28 - 2 39 13   +2016.3626
31 13 41  +109 16 52 - 0 35 26   +1992.3288

31 13 41 17 +109 41 56 P  472    +1984.8459

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31 13 43  +112 13 39 + 3 34 27   +1937.6685
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31 13 59  +144  9 23 +37 14 19   +1247.2443
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31 14  2  +154 10 58 +42 42 14   +1087.3660
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31 14  8  -178 24 27 +49 53 57   + 771.2727
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31 14 10  -167 20 13 +50 28 50   + 673.6717
31 14 11  -161 38 52 +50 19 48   + 627.1472
31 14 12  -155 57 25 +49 52 16   + 582.4399
31 14 13  -150 20 28 +49  6 17   + 539.7759
31 14 14  -144 52 10 +48  2  8   + 499.3809
31 14 15  -139 35 49 +46 40 36   + 461.4767
31 14 16  -134 33 51 +45  2 52   + 426.2805
31 14 17  -129 47 42 +43 10  5   + 394.0014
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31 14 20  -117  6 22 +36 15 45   + 316.6000
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31 14 26  - 97 39 33 +18 44 36   + 262.4032
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31 14 31  - 84 52  6 + 2 36 48   + 327.0524
31 14 32  - 82 26  2 - 0 34 16   + 351.4253
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31 14 55  -  8 27 14 -50  3 13   +1443.8055
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31 15 37  + 92 21 35 +13 50  6   +1766.0501
31 15 38  + 94  2 55 +15 56 36   +1726.6324
31 15 39  + 95 47 57 +18  7 18   +1685.5036
31 15 40  + 97 37 14 +20 16  3   +1642.7472
31 15 41  + 99 31 [illegible]    +1598.4590
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31 15 45  +108 11  6 +30 52 46   +1407.9273
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31 15 48  +116 12 35 +36 56 31   +1254.2937
31 15 49  +119 16 20 +38 51 30   +1201.7502
31 15 50  +122 33 46 +40 41 60   +1148.7936
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31 15 52  +129 54 30 +44  5 28   +1042.2996
31 15 53  +133 59 51 +45 35 59   + 989.1132
31 15 54  +138 22 45 +46 57 12   + 936.2144
31 15 55  +143  3 14 +48  7 31   + 883.7975
31 15 56  +148  0 41 +49  5 22   + 832.0641
31 15 57  +153 13 33 +49 49  8   + 781.2224
31 15 58  +158 39 21 +50 17 20   + 731.4865
31 15 59  +164 14 41 +50 28 39   + 683.0751
31 16  0  +169 55 23 +50 22  9   + 636.2110
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31 16  5  -162 54  5 +45 17 44   + 432.9[illegible]
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31 16  7  -153 33 46 +41 22 35   + 370.3111
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31 16  9  -145 17 50 +36 37 53   + 320.6989
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31 16 13  -131 32 11 +25 23  6   + 265.6556
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31 16 16  -122 57 58 +16  1 53   + 266.0577
31 16 17  -120 17 57 +12 49  1   + 274.2955
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31 16 33  - 79 20 12 -34 17 55   + 848.0002
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31 17  8  + 37  4 33 -22 57 52   +2117.5516
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31 17 49  +141 30 34 +50 24  7   + 645.2400
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2   5 38   -142 35 19 - 6 46  0   +2077.0959
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2  11 17   +152 31  8 +17 43 58   +1769.3687
2  11 18   +154 17 16 +19 50 20   +1730.1250
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2 17 57   - 29 56 20 -47 51  2   +1691.9825
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8 23 13  - 80 57 42 -10 59 38   +2065.9535
8 23 14  - 79 29  7 - 8 59 13   +2074.2232
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8 23 15  - 78  1 49 - 6 58 32   +2080.1438
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8 23 16  - 76 35 31 - 4 57 36   +2083.7074
8 23 17  - 75  9 54 - 2 56 29   +2084.9098
8 23 18  - 73 44 38 - 0 55 13   +2083.7488

8 23 18 27 - 73  5 51 P  583    +2082.1465

8 23 19  - 72 19 26 + 1  6 10   +2080.2273
8 23 20  - 70 53 57 + 3  7 38   +2074.3504
8 23 21  - 69 27 57 + 5  9  8   +2066.1269
8 23 22  - 68  1  3 + 7 10 38   +2055.5690
8 23 23  - 66 32 59 + 9 12  6   +2042.6927
8 23 24  - 65  3 23 +11 13 28   +2027.5173
8 23 25  - 63 31 54 +13 14 41   +2010.0656
8 23 26  - 61 58  9 +15 15 40   +1990.3646
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8 23 29  - 56 59 18 +21 16 26   +1918.0901
8 23 30  - 55 12 17 +23 15 34   +1889.7378
8 23 31  - 53 20 41 +25 13 55   +1859.3301
8 23 32  - 51 23 59 +27 11 16   +1826.9199
8 23 33  - 49 21 28 +29  7 24   +1792.5632
8 23 34  - 47 12 31 +31  2  5   +1756.3235
8 23 35  - 44 56 20 +32 54 58   +1718.2675
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8 23 51  + 16 44 20 +50 10 38   + 942.7079
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8 23 53  + 26 59  3 +48 54 29   + 839.2311
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8 23 56  + 41 25 29 +45  7 16   + 690.7979
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9  0 28  +140 53 25 -43 31 15   + 737.3670
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9  0 39  -166 40 32 -49 12 31   +1308.1445
9  0 40  -162 18 11 -48 24 38   +1358.6178
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9  0 47  -137 45 22 -39  7 18   +1679.2191
9  0 48  -135  2 16 -37 26 31   +1719.0662
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9  0 50  -130  3 50 -33 55 41   +1793.4208
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9  0 54  -121 36 10 -26 28 10   +1918.9233
9  0 55  -119 43 47 -24 32 39   +1945.1406
9  0 56  -117 55 58 -22 36  5   +1969.2025
9  0 57  -116 12 14 -20 38 38   +1991.0716
9  0 58  -114 32  5 -18 40 28   +2010.7137
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9  1  9  - 98 15 32 + 3 25  6   +2073.9432
9  1 10  - 96 49 26 + 5 26 36   +2065.5875
9  1 11  - 95 22 25 + 7 28  4   +2054.8980
9  1 12  - 93 54  9 + 9 29 30   +2041.8909
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9  1 16  - 87 41 48 +17 33 26   +1967.1317
9  1 17  - 86  1 54 +19 33 37   +1942.9035
9  1 18  - 84 18 26 +21 33 15   +1916.5316
HAVANA 47   9  1  18 59.460
              + 2.8219  1890.0328     N
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FTSTEW 48   9  1  19 32.790
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9  1 21  - 78 41 16 +27 27 29   +1825.0102
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9  1 51  + 37 40 19 +31 40 45   + 438.5882
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9  1 56  + 52 24 42 +16 59 21   + 307.1908
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9  2 19  +122 43 18 -46 48 24   + 840.8324
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9  2 22  +137 13 44 -49 42 10   + 997.3002
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9   2 52   -134 11 29 - 8 24 17   +2075.0120
9   2 53   -132 44 30 - 6 23 29   +2080.6627
9   2 54   -131 18 24 - 4 22 29   +2083.9552
9   2 55   -129 52 54 - 2 21 18   +2084.8858
9   2 56   -128 27 40 - 0 20  0   +2083.4534

9   2 56   9 -128 13 37 P  585    +2082.8282

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9   3 28   - 42 16 41 +50 23 13   + 988.8754
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9   4 45   0 -155 47 28 P  586    +2083.2210

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9   4 49   -150  4 23 + 8  3 43   +2053.4553
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9   4 57   -137  7  0 +24  6 12   +1884.4877
9   4 58   -135 13 32 +26  3 55   +1853.7159
9   4 59   -133 14 43 +28  0 34   +1820.9499
9   5  0   -131  9 50 +29 55 53   +1786.2474
9   5  1   -128 58 17 +31 49 36   +1749.6717
9   5  2   -126 59 12 +33 41 24   +1711.2910
9   5  3   -124 11 51 +35 30 54   +1671.1816
9   5  4   -121 35 19 +37 17 38   +1629.4211
9   5  5   -118 48 44 +39  1  6   +1586.0972
NELCAL 42   9   5   5  37.472
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9   5  6   -115 51  9 +40 40 41   +1541.3032
9   5  7   -112 41 40 +42 15 41   +1495.1383
9   5  8   -109 19 26 +43 45 20   +1447.7102
9   5  9   -105 43 41 +45  8 44   +1399.1332
9   5 10   -101 53 54 +46 24 54   +1349.5297
9   5 11   - 97 49 47 +47 32 44   +1299.0298
9   5 12   - 93 31 31 +48 31  8   +1247.7720
9   5 13   - 88 59 43 +49 18 53   +1195.9028
9   5 14   - 84 15 39 +49 54 51   +1143.5781
9   5 15   - 79 21  8 +50 17 55   +1090.9618
BPOINT 49   9   5  15 26.861
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9   5 16   - 74 18 42 +50 27  7   +1038.2268
9   5 17   - 69 11 17 +50 21 41   + 985.5548
9   5 18   - 64  2 12 +50  1  5   + 933.1355
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9   5 21   - 48 57 39 +47 27 11   + 779.4137
9   5 22   - 44 12 49 +46  6  9   + 730.0609
9   5 23   - 39 39 33 +44 31 19   + 682.0219
9   5 24   - 35 18 47 +42 43 29   + 635.5252
9   5 25   - 31 10 54 +40 43 36   + 590.8023
9   5 26   - 27 15 52 +38 32 38   + 548.0849
9   5 27   - 23 33 11 +36 11 31   + 507.6045
9   5 28   - 20  2 10 +33 41 12   + 469.5890
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9   5 37   +  5 33 54 + 6 36 13   + 271.0581
9   5 38   +  8  2 31 + 3 19 39   + 267.6639
9   5 39   + 10 30  6 + 0  2 32   + 268.2915
9   5 40   + 12 57 35 - 3 14 26   + 272.9379
9   5 41   + 15 25 45 - 6 30 33   + 281.5710
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9   5 43   + 20 27 47 -12 57 30   + 310.5262
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JOBURG 39   9   5  45 54.684
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9   5 49   + 37 24 50 -30 45 50   + 481.6004
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9   5 56   + 64  9 16 -45 45 12   + 796.4321
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9   5 58   + 73 30 18 -48 16 37   + 899.0144
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9   6  5   +107 52 52 -49 36 12   +1266.4060
9   6  6   +112 23 20 -48 54 43   +1317.5237
9   6  7   +116 41 26 -48  2 34   +1367.8252
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9  6 25   +163 29 25 -17 48 12   +2014.0375
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9  7  8   - 85 49 50 +49 19 19   + 877.7787
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9  7 38   + 10 14  3 -31  5 27   + 484.1298
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9  7 42   + 24 26 58 -40 37 26   + 653.8877
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9  7 50   + 61 29 12 -50 18 21   +1060.3088
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9  8 25   +152 20 30 + 4 37 39   +2072.0738
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9  8 28   +156 43 41 +10 41 37   +2038.2911
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9  8 34   +166 28 24 +22 42 50   +1909.6170
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9  8 36   +170 13  8 +26 38 22   +1849.5860
9  8 37   +172 13 30 +28 34 29   +1816.5622
9  8 38   +174 20  4 +30 29 13   +1781.6089
9  8 39   +176 33 30 +32 22 15   +1744.7906
9  8 40   +178 54 40 +34 13 16   +1706.1756
9  8 41   -178 35 42 +36  1 50   +1665.8400
9  8 42   -175 56 39 +37 47 32   +1623.8643
9  8 43   -173  7 20 +39 29 47   +1580.3361
9  8 44   -170  6 49 +41  7 58   +1535.3495
9  8 45   -166 54 10 +42 41 24   +1489.0048
9  8 46   -163 28 38 +44  9 14   +1441.4108
9  8 47   -159 49 26 +45 30 35   +1392.6826
9  8 48   -155 56 10 +46 44 25   +1342.9440
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9  8 52   -138  5 51 +50  2 19   +1136.6332
9  8 53   -133  9 32 +50 21 44   +1083.9792
9  8 54   -128  6  3 +50 27  7   +1031.2296
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9  8 56   -117 50  6 +49 53 11   + 926.1843
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9  8 58   -107 44  5 +48 17 59   + 823.0585
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9  9  0   - 98 10 41 +45 43 22   + 723.5359
9  9  1   - 93 40 58 +44  5 19   + 675.6788
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9  9  3   - 85 19 32 +40 11 58   + 584.9192
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9  9 23   - 28 45 39 -19 57 17   + 357.8585
9  9 24   - 25 58 57 -22 57 50   + 385.4465
9  9 25   - 23  5 47 -25 53 11   + 416.2577
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9 10 18   +130 54 52 +13  1 17   +2021.2592
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9 10 20   +134  3 53 +17  2 28   +1982.4252
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9 10 22   +137 24 53 +21  1 58   +1934.7631
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9 10 33   +162 46 21 +41 21 46   +1532.2125
9 10 34   +166  0 36 +42 54 22   +1485.7741
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9 10 40   -169 47 29 +49 35  0   +1185.3989
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9 10 42   -160  2 35 +50 23 18   +1080.3119
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 9 23  1  - 60 14 24 +15 18 26   +2011.7457
 9 23  2  - 58 38 32 +17 18 29   +1992.2416
 9 23  3  - 56 59 41 +19 18  4   +1970.5119
 9 23  4  - 55 17 24 +21 17  4   +1946.5909
 9 23  5  - 53 31 13 +23 15 23   +1920.5164
 9 23  6  - 51 40 35 +25 12 51   +1892.3306
 9 23  7  - 49 44 59 +27  9 17   +1862.0809
 9 23  8  - 47 43 45 +29  4 28   +1829.8185
 9 23  9  - 45 36 15 +30 58 11   +1795.6002
 9 23 10  - 43 21 47 +32 50  6   +1759.4875
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 9 23 15  - 29 56  9 +41 28 42   +1553.0607
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 9 23 17  - 23 15 31 +44 26 19   +1460.0408
 9 23 18  - 19 35 14 +45 45 40   +1411.7006
 9 23 19  - 15 41  1 +46 57 25   +1362.2975
 9 23 20  - 11 32 48 +48  0 29   +1311.9607
 9 23 21  -  7 10 54 +48 53 44   +1260.8270
 9 23 22  -  2 36 12 +49 36  2   +1209.0412
 9 23 23  +  2  9 49 +50  6 16   +1156.7577
 9 23 24  +  7  5  9 +50 23 26   +1104.1387
 9 23 25  + 12  7  5 +50 26 38   +1051.3553
 9 23 26  + 17 12 39 +50 15 13   + 998.5884
 9 23 27  + 22 18 34 +49 48 47   + 946.0264
 9 23 28  + 27 21 34 +49  7 10   + 893.8662
 9 23 29  + 32 18 43 +48 10 31   + 842.3125
 9 23 30  + 37  7 26 +46 59 12   + 791.5781
 9 23 31  + 41 45 51 +45 33 48   + 741.8819
 9 23 32  + 46 12 35 +43 55  3   + 693.4479
 9 23 33  + 50 26 52 +42  3 48   + 646.5048
 9 23 34  + 54 28 32 +40  0 57   + 601.2847
 9 23 35  + 58 17 44 +37 47 25   + 558.0208
 9 23 36  + 61 55  5 +35 24  8   + 516.9453
 9 23 37  + 65 21 14 +32 52  1   + 478.2874
 9 23 38  + 68 37  8 +30 11 55   + 442.2718
 9 23 39  + 71 43 46 +27 24 42   + 409.1152
 9 23 40  + 74 42  8 +24 31 10   + 379.0237
 9 23 41  + 77 33 18 +21 32  7   + 352.1902
 9 23 42  + 80 18 15 +18 28 18   + 328.7916
 9 23 43  + 82 57 58 +15 20 29   + 308.9861
 9 23 44  + 85 33 25 +12  9 21   + 292.9100
 9 23 45  + 88  5 34 + 8 55 39   + 280.6765
 9 23 46  + 90 35 16 + 5 40  5   + 272.3730
 9 23 47  + 93  3 29 + 2 23 20   + 268.0597
 9 23 48  + 95 30 60 - 0 53 52   + 267.7672
 9 23 49  + 97 58 44 - 4 10 51   + 271.4989
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 9 23 51  +102 58 18 -10 41 20   + 290.8981
 9 23 52  +105 31 53 -13 53 28   + 306.4274
 9 23 53  +108  9 14 -17  2 33   + 325.7069
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 9 23 55  +113 38 59 -23  8 49   + 374.9616
 9 23 56  +116 33 22 -26  4 31   + 404.6079
 9 23 57  +119 35 24 -28 54 16   + 437.3514
 9 23 58  +122 46  7 -31 37 16   + 472.9876
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10  0  4  +145 40 30 -44 46 11   + 735.0506
10  0  5  +150 11 44 -46 17 54   + 784.6139
10  0  6  +154 53 56 -47 36  2   + 835.2474
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10  0  8  +164 44  3 -49 29  2   + 938.8512
10  0  9  +169 47  6 -50  3 12   + 991.4013
10  0 10  +174 51 28 -50 22 24   +1044.1828
10  0 11  +179 53 56 -50 26 54   +1097.0052
10  0 12  -175  8 35 -50 17 13   +1149.6869
10  0 13  -170 18 57 -49 54  6   +1202.0551
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10  0 17  -152 56 44 -46 27 30   +1405.2402
10  0 18  -149  9 51 -45 12 47   +1453.7521
10  0 19  -145 36 35 -43 50 58   +1501.0949
10  0 20  -142 16 26 -42 22 60   +1547.1538
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10  0 22  -136 12 32 -39 11 53   +1635.0030
10  0 23  -133 27  5 -37 30 10   +1676.6016
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10  0 35  -109 33 26 -14 35 33   +2026.9504
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10  0 37  -106 30 55 -10 34 39   +2055.1629
10  0 38  -105  2 19 - 8 33 49   +2065.7969
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10  0 42  - 99 17 52 - 0 29  2   +2084.8638

10  0 42 14 - 98 57 28 P  597    +2084.5922

10  0 43  - 97 52 40 + 1 32 18   +2083.7292
10  0 44  - 96 27 14 + 3 33 39   +2080.2326
10  0 45  - 95  1 14 + 5 34 56   +2074.3788
10  0 46  - 93 34 24 + 7 36  7   +2066.1764
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10  0 48  - 90 36 47 +11 38  3   +2042.7770
10  0 49  - 89  5 22 +13 38 41   +2027.6143
10  0 50  - 87 31 41 +15 39  0   +2010.1719
10  0 51  - 85 55 23 +17 38 56   +1990.4760
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              - 5.2300  1950.3300     N
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10  0 57  - 74 56 23 +29 23 38   +1826.9660
10  0 58  - 72 47 52 +31 16 59   +1792.5803
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10  1  2  - 62 54 53 +38 28 11   +1636.8504
10  1  3  - 60  2 41 +40  8 11   +1593.7527
10  1  4  - 56 59 10 +41 43 55   +1549.1632
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10  1 16  -  4 29  8 +49 43 27   + 941.4459
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10  1 21  + 19 16 55 +43 39 27   + 689.2517
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10  1 23  + 27 28 48 +39 42  9   + 597.3840
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10  1 25  + 34 51 36 +35  2 43   + 513.4238
10  1 26  + 38 16  6 +32 29 29   + 474.9873
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10  1 28  + 44 35 47 +27  0 19   + 406.3173
10  1 29  + 47 32 58 +24  6  2   + 376.5047
10  1 30  + 50 23  7 +21  6 20   + 349.9677
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10  1 32  + 55 46 12 +14 53 41   + 307.4007
10  1 33  + 58 21  7 +11 42 11   + 291.6619
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10  1 35  + 63 22 15 + 5 12 27   + 271.8249
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10  1 37  + 68 17 48 - 1 21 36   + 267.9360
10  1 38  + 70 45 38 - 4 38 31   + 272.0258
10  1 39  + 73 14 42 - 7 54 25   + 280.1092
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10  1 53  +118 46 16 -45  0 39   + 739.3935
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10  1 56  +132 56 26 -48 48 17   + 891.3150
10  1 57  +137 56 12 -49 35 13   + 943.4772
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10  1 59  +148  4 32 -50 24  3   +1048.8403
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10  2 38  -116 22 43 +13 59 36  +2026.1815
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10  2 44  -106  8 57 +25 52 30  +1887.2413
10  2 45  -104 11 39 +27 48 24  +1856.6352
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10  4  7  -174 19 51 -25 46  3  +1893.7706
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10  4 11  -167 18 15 -17 53 28  +1993.2729
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10  4 13  -164  7 51 -13 53 35  +2029.8043
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10  4 15  -161  6 34 - 9 52 21  +2057.2051
10  4 16  -159 38 26 - 7 51 23  +2067.4282
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10  4 18  -156 45 26 - 3 49  2  +2080.8464
10  4 19  -155 19 57 - 1 47 43  +2084.0216

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10  4 21  -152 29 31 + 2 14 56  +2083.2828
10  4 22  -151  3 56 + 4 16 17  +2079.3697
10  4 23  -149 37 43 + 6 17 30  +2073.1004
10  4 24  -148 10 30 + 8 18 37  +2064.4842
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10  4 26  -145 11 53 +12 20 18  +2040.2637
10  4 27  -143 39 47 +14 20 45  +2024.6949
10  4 28  -142  5 18 +16 20 52  +2006.8502
10  4 29  -140 28  5 +18 20 32  +1986.7570
10  4 30  -138 47 40 +20 19 41  +1964.4453
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10  4 33  -133 22 29 +26 12 38  +1884.5749
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10 22 59  +  9 42 26 +50 24 58  +1140.8593
10 23  0  + 14 41 27 +50 25 41  +1088.0930
10 23  1  + 19 43 29 +50 12  3  +1035.2156
```

```
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10 23  3  + 29 44  7 +49  0 31  + 929.8714
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10 23  5  + 39 21  8 +46 50 31  + 826.3984
10 23  6  + 43 55 13 +45 24 38  + 775.8890
10 23  7  + 48 17 54 +43 45 44  + 726.4917
10 23  8  + 52 28 28 +41 54 37  + 678.4336
10 23  9  + 56 26 46 +39 52  8  + 631.9457
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10 23 11  + 63 47 43 +35 16 38  + 544.6153
10 23 12  + 67 11 36 +32 45 21  + 504.2395
10 23 13  + 70 25 35 +30  6 10  + 466.3632
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10 23 15  + 76 27 33 +24 27 17  + 398.9911
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10 23 17  + 82  1 34 +18 26  7  + 344.1589
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10 23 41  +157 11 55 -47 44 37  + 800.7772
10 23 42  +162  8  5 -48 47 22  + 851.6555
10 23 43  +167 11 18 -49 35  1  + 903.3131
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10 23 49  -162 54 50 -49  9 10  +1218.3762
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10 23 51  -154 12  6 -47 18 37  +1321.0221
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10 23 53  -146 25 32 -44 51 24  +1420.3940
10 23 54  -142 53 15 -43 26 47  +1468.5192
10 23 55  -139 34 15 -41 56  8  +1515.4425
10 23 56  -136 27 45 -40 20 19  +1561.0527
10 23 57  -133 32 56 -38 40  5  +1605.2457
10 23 58  -130 48 49 -36 56  7  +1647.9235
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11  0  2  -121 22  3 -29 33 20  +1801.7810
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11  0  4  -117 21  6 -25 41 13  +1867.5675
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11  0  6  -113 41  5 -21 44 51  +1925.2746
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11  0 14  -101  9 19 - 5 39 44  +2068.5687
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11  0 16  - 98 17 36 - 1 36 50  +2081.3958

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11  0 17  - 96 52 21 + 0 24 36  +2084.2734
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11  0 19  - 94  1 31 + 4 27 11  +2082.9356
11  0 20  - 92 35 18 + 6 28 17  +2078.7217
11  0 21  - 91  8  9 + 8 29 12  +2072.1500
11  0 22  - 89 39 46 +10 29 53  +2063.2310
11  0 23  - 88  9 45 +12 30 17  +2051.9768
11  0 24  - 86 37 48 +14 30 20  +2038.4033
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11  0 26  - 83 26 31 +18 29  7  +2004.3833
 HAVANA 47  11 0  26 32.948
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11  0 27  - 81 46 25 +20 27 40  +1983.9867
 FTSTEW 48  11 0  27  9.450
              -41.6390  2437.4320    N
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11  0 29  - 78 14 55 +24 22 30  +1936.5781
 BPOINT 49  11 0  29 37.230
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11  0 31  - 74 24 56 +28 13 19  +1880.6053
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11  0 36  - 62 56  2 +37 20 18  +1705.8276
11  0 37  - 60 12 42 +39  1 44  +1665.4000
11  0 38  - 57 18 55 +40 39 23  +1623.3241
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11  0 40  - 50 56 34 +43 40 38  +1534.5853
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11  0 43  - 39 46  4 +47 25  9  +1391.5324
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11  0 52  +  3  3 49 +48 51 12  + 923.7995
11  0 53  +  7 54 53 +47 50 49  + 871.7871
11  0 54  + 12 37 14 +46 36 14  + 820.4745
11  0 55  + 17  9  9 +45  8  4  + 770.0772
11  0 56  + 21 29 30 +43 27  1  + 720.8187
11  0 57  + 25 37 43 +41 33 56  + 672.9267
11  0 58  + 29 33 41 +39 29 39  + 626.6322
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11  1  5  + 52 12 25 +20 58 14  + 366.7153
11  1  6  + 54 55 27 +17 54 33  + 341.3631
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11  1  8  + 60  7 51 +11 35 54  + 301.3563
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11  1 27  +116 38  4 -43 30 41  + 660.4682
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11  1 31  +135 28 36 -48 57  2  + 857.6559
11  1 32  +140 33  4 -49 41 58  + 909.3866
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11  1 56  -139 10 13 -19 21 33  +1953.8077
11  1 57  -137 30 50 -17 21 30  +1977.0949
11  1 58  -135 54 30 -15 21  2  +1998.1805
11  1 59  -134 20 48 -13 20 13  +2017.0320
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11  2  1  -131 19 45 - 9 17 55  +2047.9186
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11  2  3  -128 24 48 - 5 15  6  +2069.5686
11  2  4  -126 58 46 - 3 13 38  +2076.8877
11  2  5  -125 33 18 - 1 12 10  +2081.8532

11  2  5 35 -124 42 38 P  611   +2083.4010

11  2  6  -124  8  3 + 0 49 15  +2084.4577
11  2 '7  -122 42 44 + 2 50 35  +2084.6979
11  2  8  -121 17  4 + 4 51 48  +2082.5732
11  2  9  -119 50 42 + 6 52 52  +2078.0856
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11  2 24  - 92 33 23 +35 56 25  +1740.1103
11  2 25  - 89 57 57 +37 40 25  +1701.2032
11  2 26  - 87 12 48 +39 21  5  +1660.5754
11  2 27  - 84 17  1 +40 57 50  +1618.3090
 FTSTEW 48  11 2  27 53.464
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11  2 28  - 81  9 48 +42 30  2  +1574.4917
11  2 29  - 77 50 18 +43 56 55  +1529.2201
 BPOINT 49  11 2  29 12.731
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11  2 30  - 74 17 55 +45 17 39  +1482.5953
11  2 31  - 70 32  8 +46 31 20  +1434.7274
11  2 32  - 66 32 44 +47 36 57  +1385.7340
11  2 33  - 62 19 55 +48 33 26  +1335.7401
11  2 34  - 57 54 13 +49 19 43  +1284.8796
11  2 35  - 53 16 52 +49 54 43  +1233.2943
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11  2 38  - 38 34 42 +50 22 22  +1075.7404
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11  2 40  - 28 32 23 +49 29 44  + 970.0785
11  2 41  - 23 36  7 +48 41 18  + 917.6180
11  2 42  - 18 46 44 +47 38 22  + 865.6714
11  2 43  - 14  6 24 +46 21 21  + 814.4498
11  2 44  -  9 36 45 +44 50 53  + 764.1705
11  2 45  -  5 18 44 +43  7 43  + 715.0568
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11  2 49  +  9 53  3 +34 24 52  + 534.8708
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11  2 51  + 16 23 36 +29  9 23  + 457.7990
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11  3 54  -152 48 47 - 0 47 14  +2082.2864

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11  4  2  -141  5 47 +15 19  2  +2034.9050
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11  4  4  -137 52 24 +19 17 14  +1999.8175
11  4  5  -136 10 59 +21 15 25  +1978.8968
11  4  6  -134 25 46 +23 12 50  +1955.7662
11  4  7  -132 36 20 +25  9 20  +1930.4621
11  4  8  -130 42  2 +27  4 45  +1903.0248
11  4  9  -128 42 23 +28 58 54  +1873.4993
11  4 10  -126 36 41 +30 51 31  +1841.9358
11  4 11  -124 24 16 +32 42 22  +1808.3884
11  4 12  -122  4 25 +34 31  5  +1772.9167
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 NELCAL 42  11 4  14  0.110
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11  4 15  -114 12  7 +39 40 29  +1655.6360
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 BPOINT 49  11 4  24 35.559
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11  4 36  - 24 12  8 +38 42 57  + 615.7813
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11  4 44  +  0 43 52 +16 49 54  + 335.7672
11  4 45  +  3 20 27 +13 41  7  + 314.8022
11  4 46  +  5 53 28 +10 29 16  + 297.5354
11  4 47  +  8 23 48 + 7 15  1  + 284.0868
11  4 48  + 10 52 21 + 3 59  5  + 274.5500
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11 23 14   +151 44 34 -45 40 10   + 687.5830
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11 23 18   +171 37  7 -49 53 31   + 887.1734
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11 23 50 59 - 95 16 12 P  623     +2079.9354

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12  0  8   - 66 38 15 +33 20  9   +1827.1696
12  0  9   - 64 16 50 +35  7 16   +1792.7173
12  0 10   - 61 47  7 +36 51 44   +1756.3653
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12  0 12   - 56 19 28 +40 10 57   +1678.2367
12  0 13   - 53 19 53 +41 44 34   +1636.6132
12  0 14   - 50  8 43 +43 13 20   +1593.3955
12  0 15   - 46 45 18 +44 36 29   +1548.6768
12  0 16   - 43  9  0 +45 53 11   +1502.5562
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12  0 42   + 60 24 10 +13 29 30   + 325.1932
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12  1  5   +134 53  3 -48 29 60   + 792.5355
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12  1 37   -126 45 26 - 5 35 20   +2056.6408
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12  1 51   -105 40 44 +22 27 11   +1987.8340
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12   3 39   -134 32 47 +20 57 19   +2005.0643
12   3 40   -132 48 52 +22 54 13   +1984.7168
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12   3 47   -118 15 18 +35 54 60   +1782.3003
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12   3 49   -112 58 49 +39 17 41   +1706.6840
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```

```
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12   4 58   +146 38 56 -38  4 14   +1566.3022
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12   5 17   -178 18 14 -  0 34 43   +2076.9580

12   5 17 17 -177 53 51 P   626     +2078.3788

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12   5 20   -174  1 34 +  5 29 23   +2084.7984
12   5 21   -172 35  2 +  7 30 16   +2082.6792
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12   5 23   -169 38 32 +11 31  6   +2071.3511
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12   5 26   -165  0 16 +17 29  7   +2036.7721
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12   5 31   -156 13 55 +27 11 37   +1933.5197
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12   9 42   - 88  7 14 +25 31 23   + 444.9431
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13 22 56   - 94 32 21 - 4 50 28   +2028.0928
13 22 57   - 93  5 36 - 2 47 55   +2042.4913
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13 23  2   - 85 55 39 + 7 20 30   +2079.5105
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14   4 33   -161 12 20 +17  0 25   +2061.5061
14   4 34   -159 35 57 +18 58  1   +2050.9754
14   4 35   -157 56 37 +20 54 47   +2038.1090
14   4 36   -156 13 53 +22 50 38   +2022.9247
14   4 37   -154 27 21 +24 45 25   +2005.4441
14   4 38   -152 36 27 +26 39  1   +1985.6924
14   4 39   -150 40 43 +28 31 14   +1963.6997
14   4 40   -148 39 35 +30 21 52   +1939.4992
14   4 41   -146 32 23 +32 10 43   +1913.1282
14   4 42   -144 18 31 +33 57 28   +1884.6292
14   4 43   -141 57 16 +35 41 50   +1854.0496
14   4 44   -139 27 55 +37 23 25   +1821.4405
14   4 45   -136 49 42 +39  1 48   +1786.8593
14   4 46   -134  1 51 +40 36 31   +1750.3682
14   4 47   -131  3 37 +42  6 58   +1712.0349
14   4 48   -127 54 19 +43 32 32   +1671.9335
14   4 49   -124 33 15 +44 52 31   +1630.1442
14   4 50   -121  0  1 +46  6  7   +1586.7536
14   4 51   -117 14 16 +47 12 29   +1541.8547
 NELCAL 42   14 4   51   3.812
                    +57.4125   2377.6902     N
14   4 52   -113 16  3 +48 10 42   +1495.5490
14   4 53   -109  5 45 +48 59 49   +1447.9440
14   4 54   -104 44  7 +49 36 53   +1399.1563
14   4 55   -100 12 31 +50  6 57   +1349.3092
14   4 56   -  95 32 37 +50 23 11   +1298.5356
14   4 57   -  90 46 43 +50 26 50   +1246.9766
14   4 58   -  86 57 18 +50 17 20   +1194.7820
14   4 59   -  81  7 10 +49 54 16   +1142.1109
 BPOINT 49   14 4   59 50.043
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14   5  0   -  76 19  0 +49 17 30   +1089.1313
14   5  1   -  71 35 25 +48 27  3   +1036.[illegible]
14   5  2   -  66 58 40 +47 23  9   + 982.[illegible]
14   5  3   -  62 30 30 +46  6 13   + 9[illegible]
14   5  4   -  58 12 18 +44 36 46   + 8[illegible]
14   5  5   -  54  4 50 +42 55 32   + 8[illegible]
14   5  6   -  50  8 30 +41  3  7   + 775.3169
14   5  7   -  46 23 17 +39  0 18   + 725.6228
14   5  8   -  42 48 56 +36 47 48   + 677.2677
14   5  9   -  39 24 50 +34 26 23   + 630.4864
14   5 10   -  36 10 18 +31 56 46   + 585.5148
14   5 11   -  33  4 32 +29 19 37   + 542.5900
14   5 12   -  30  6 40 +26 35 40   + 501.9464
14   5 13   -  27 15 48 +23 45 31   + 463.8154
14   5 14   -  24 30 60 +20 49 52   + 428.4209
14   5 15   -  21 51 23 +17 49 19   + 395.9775
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14   5 17   -  16 44  6 +11 36  5   + 340.7400
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14   5 21   -   6 53 13 -  1 21  7   + 273.4313
14   5 22   -   4 25 26 -  4 37 59   + 266.2899
14   5 23   -   1 55 53 -  7 54 31   + 263.1564
14   5 24   +   0 36 19 - 11  9 60   + 264.0482
14   5 25   +   3 12  8 - 14 23 40   + 268.9538
14   5 26   +   5 52 32 - 17 34 48   + 277.8327
14   5 27   +   8 38 32 - 20 42 35   + 290.6169
14   5 28   +  11 31 12 - 23 46 11   + 307.2107
14   5 29   +  14 31 39 - 26 44 47   + 327.4959
14   5 30   +  17 41  1 - 29 37 28   + 351.3294
14   5 31   +  21  0 27 - 32 23 17   + 378.5491
14   5 32   +  24 31  6 - 35  1 17   + 408.9755
14   5 33   +  28 13 58 - 37 30 24   + 442.4138
14   5 34   +  32 10  2 - 39 49 35   + 478.6574
14   5 35   +  36 19 53 - 41 57 42   + 517.4899
14   5 36   +  40 43 54 - 43 53 38   + 558.6892
14   5 37   +  45 21 49 - 45 36 18   + 602.0276
14   5 38   +  50 12 51 - 47  4 39   + 647.2755
14   5 39   +  55 15 30 - 48 17 47   + 694.2040
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14   5 43   +  76 26 54 - 50 27 48   + 894.2222
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14   5 46   +  91 45 32 - 49 19 39   +1051.1700
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14   5 48   + 100 56 42 - 47 28 36   +1156.1551
14   5 49   + 105  9 34 - 46 17 14   +1208.2238
14   5 50   + 109  6 58 - 44 57  2   +1259.7933
14   5 51   + 112 49 10 - 43 29 14   +1310.7126
14   5 52   + 116 16 52 - 41 54 55   +1360.8381
14   5 53   + 119 30 51 - 40 15  5   +1410.0349
14   5 54   + 122 32 11 - 38 30 37   +1458.1756
14   5 55   + 125 21 51 - 36 42 16   +1505.1410
14   5 56   + 128  0 52 - 34 50 42   +1550.8187
14   5 57   + 130 30 17 - 32 56 30   +1595.1041
14   5 58   + 132 51  0 - 31  0  7   +1637.8991
14   5 59   + 135  3 58 - 29  1 60   +1679.1127
 OOMERA 40   14 5  59 48.464
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14   6  1   + 139  9 42 - 25  1 49   +1756.4597
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14   6  3   + 142 53 17 - 20 58 10   +1826.5371
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14   6 21   + 170  9  2 + 15 36 16   +2068.2426
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14   6 35   - 160 44 22 + 41  2 28   +1742.7487
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14   6 37   - 154 30 50 + 43 55 34   +1663.5915
14   6 38   - 151  6 35 + 45 13 47   +1621.4648
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14   6 41   - 139 39 39 + 48 25 16   +1485.9729
14   6 42   - 135 26 20 + 49 11 39   +1438.1123
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14   6 45   - 121 46 44 + 50 25 27   +1288.0896
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14   6 51   -  93 17 47 + 47  3 47   + 972.1448
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 BPOINT 49   14 6  54 53.014
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14   6 56   -  72 57 42 + 38 26 15   + 715.6007
14   6 57   -  69 26 16 + 36 11 26   + 667.5455
14   6 58   -  66  4 54 + 33 47 54   + 621.1125
14   6 59   -  62 52 54 + 31 16 21   + 576.5386
14   7  0   -  59 49 25 + 28 37 28   + 534.0603
14   7  1   -  56 53 34 + 25 51 57   + 493.9121
14   7  2   -  54  4 29 + 23  0 25   + 456.3234
14   7  3   -  51 21 13 + 20  3 31   + 421.5168
14   7  4   -  48 42 52 + 17  1 54   + 389.7049
14   7  5   -  46  8 34 + 13 56 11   + 361.0871
14   7  6   -  43 37 26 + 10 46 60   + 335.8472
14   7  7   -  41  8 36 +  7 34 58   + 314.1511
14   7  8   -  38 41 14 +  4 20 44   + 296.1436
14   7  9   -  36 14 27 +  1  4 58   + 281.9454
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14   7 11   -  31 19 17 -  5 28 31   + 265.3327
14   7 12   -  28 49 10 -  8 44 51   + 263.0271
14   7 13   -  26 16  6 - 11 59 57   + 264.7468
14   7 14   -  23 39 11 - 15 13  4   + 270.4736
14   7 15   -  20 57 25 - 18 23 26   + 280.1621
14   7 16   -  18  9 46 - 21 30 16   + 293.7371

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14   7 21   -   2  4 21 - 35 40 51   + 415.6166
14   7 22   +   1 42  1 - 38  7 35   + 449.6451
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14   7 25   +  14 23 21 - 44 21 51   + 567.4203
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14   7 27   +  23 59 33 - 47 25 26   + 656.7718
14   7 28   +  29  5  9 - 48 34 28   + 704.0121
14   7 29   +  34 19 22 - 49 27 24   + 752.6587
14   7 30   +  39 39  2 - 50  3 48   + 802.4875
14   7 31   +  45  0 32 - 50 23 39   + 853.2800
14   7 32   +  50 20  1 - 50 27 11   + 904.8226
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14   8  6   + 137  3 51 +  8 12 38   +2079.5960
14   8  7   + 138 31 44 + 10 12 59   +2079.9248
14   8  8   + 140  0 56 + 12 12 48   +2077.8810
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14   8 10   + 143  4 39 + 16 10 37   +2066.6857
14   8 11   + 144 39 53 + 18  8 30   +2057.5481
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 HAVANA 47   14 8  50 24.247
                  +15.3831   486.7755     S
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14  9 58   +114 27 12 +14 46 47   +2072.2810
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14 10 17   +159 33 58 +47  2 28   +1559.2902
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15   4 29   - 94 40 32 +50 19 54   +1358.9828
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15   4 38   - 53 29 43 +43 35  5   + 887.1987
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15   4 40   - 45 44 60 +39 50 32   + 784.2827
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15   4 43   - 35 26 14 +33  1 60   + 638.5556
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15   5  0   +  9 20 48 -19  9 41   + 276.3161
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15 16 32   - 13 41  7 -13 10 14   +1895.4965
15 16 33   - 12  6 50 -11  5 41   +1923.1320
15 16 34   - 10 34 47 - 9  1 17   +1948.6510
15 16 35   -  9  4 35 - 6 57  6   +1972.0112
15 16 36   -  7 35 51 - 4 53 12   +1993.1741
15 16 37   -  6  8 15 - 2 49 38   +2012.1047
15 16 38   -  4 41 26 - 0 46 27   +2028.7723

15 16 38 22 -  4  6 48 P  672     +2034.2054

15 16 39   -  3 15  5 + 1 16 20   +2043.1502
15 16 40   -  1 48 55 + 3 18 39   +2055.2149
15 16 41   -  0 22 34 + 5 20 29   +2064.9476
15 16 42   +  1  4 12 + 7 21 46   +2072.3316
15 16 43   +  2 31 47 + 9 22 30   +2077.3551
15 16 44   +  4  0 27 +11 22 36   +2080.0084
15 16 45   +  5 30 32 +13 22  3   +2080.2862
15 16 46   +  7  2 23 +15 20 46   +2078.1863
15 16 47   +  8 36 20 +17 18 43   +2073.7117
15 16 48   + 10 12 47 +19 15 48   +2066.8646
15 16 49   + 11 52  7 +21 11 56   +2057.6546
15 16 50   + 13 34 44 +23  7  1   +2046.0941
15 16 51   + 15 21  6 +25  0 56   +2032.1973
15 16 52   + 17 11 43 +26 53 33   +2015.9844
15 16 53   + 19  7  3 +28 44 41   +1997.4778
15 16 54   + 21  7 41 +30 34  9   +1976.7045
15 16 55   + 23 14 10 +32 21 44   +1953.6958
15 16 56   + 25 27 11 +34  7  9   +1928.4870
15 16 57   + 27 47 20 +35 50  6   +1901.1175
15 16 58   + 30 15 21 +37 30 15   +1871.6317
15 16 59   + 32 51 57 +39  7 10   +1840.0788
15 17  0   + 35 37 50 +40 40 25   +1806.5129
15 17  1   + 38 33 45 +42  9 26   +1770.9932
15 17  2   + 41 40 19 +43 33 36   +1733.5852
15 17  3   + 44 58 10 +44 52 21   +1694.3598
15 17  4   + 48 27 43 +46  4 51   +1653.3935
15 17  5   + 52  9 15 +47 10 19   +1610.7709
15 17  6   + 56  2 45 +48  7 55   +1566.5811
15 17  7   + 60  7 51 +48 56 44   +1520.9226
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15 17 11  + 78  3 12 +50 26 58  +1325.8105
15 17 12  + 82 46 44 +50 19 34  +1274.5381
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15 17 14  + 92 14 32 +49 25 30  +1169.9947
15 17 15  + 96 53 45 +48 38 40  +1117.0434
15 17 16  +101 26 53 +47 38 46  +1063.8692
15 17 17  +105 52  7 +46 26 15  +1010.6533
15 17 18  +110  8  3 +45  1 30  + 957.5894
15 17 19  +114 13 55 +43 25  6  + 904.8774
15 17 20  +118  9  8 +41 37 43  + 852.7269
15 17 21  +121 53 42 +39 40  0  + 801.3536
15 17 22  +125 27 47 +37 32 39  + 750.9620
15 17 23  +128 51 51 +35 16 20  + 701.8410
15 17 24  +132  6 30 +32 51 43  + 654.1640
15 17 25  +135 12 31 +30 19 29  + 608.1881
15 17 26  +138 10 40 +27 40 14  + 564.1503
15 17 27  +141  1 49 +24 54 35  + 522.2878
15 17 28  +143 46 51 +22  3  9  + 482.8343
15 17 29  +146 26 37 +19  6 31  + 446.0167
15 17 30  +149  1 59 +16  5 17  + 412.0562
15 17 31  +151 33 49 +13  0  1  + 381.1594
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15 17 33  +156 30 15 + 6 39 50  + 329.3209
15 17 34  +158 56 31 + 3 26  8  + 308.7144
15 17 35  +161 22 36 + 0 10 52  + 291.6391
15 17 36  +163 49 21 - 3  5 18  + 278.6065
15 17 37  +166 17 40 - 6 21 47  + 269.7023
15 17 38  +168 46 22 - 9 37 39  + 264.5852
15 17 39  +171 22 23 -12 52 23  + 263.4841
15 17 40  +174  0 52 -16  5  9  + 266.4005
15 17 41  +176 44 41 -19 15 11  + 273.3067
15 17 42  +179 34 52 -22 21 38  + 284.1458
15 17 43  -177 27 22 -25 23 39  + 298.6355
15 17 44  -174 20 52 -28 20 16  + 317.2676
15 17 45  -171  4 26 -31 10 39  + 339.3100
15 17 46  -167 36 53 -33 53 39  + 364.8107
15 17 47  -163 57  4 -36 26 15  + 393.5903
15 17 48  -160  3 55 -38 53 20  + 425.4859
15 17 49  -155 56 37 -41  7 42  + 460.2737
15 17 50  -151 34 40 -43 10 10  + 497.75[illegible]
15 17 51  -146 58  1 -44 59 32  + 537.6994
15 17 52  -142  7 14 -46 34 38  + 579.8954
15 17 53  -137  3 37 -47 54 26  + 624.1124
15 17 54  -131 49 16 -48 58  4  + 670.1219
15 17 55  -126 27  6 -49 44 55  + 717.6969
15 17 56  -121  0 40 -50 14 40  + 766.6130
15 17 57  -115 33 53 -50 27 22  + 816.6493
15 17 58  -110 10 52 -50 23 26  + 867.5895
15 17 59  -104 55 18 -50  3 40  + 919.2238
15 18  0  - 99 50 22 -49 29  6  + 971.3491
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15 18  2  - 90 22 14 -47 40 41  +1076.2955
15 18  3  - 86  1 26 -46 29 37  +1128.7481
15 18  4  - 81 56 43 -45  9 10  +1180.9548
15 18  5  - 78  7 53 -43 40 38  +1232.7519
15 18  6  - 74 34 15 -42  5 12  +1283.9840
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15 18 16  - 49 15 45 -22 51 56  +1736.6681
15 18 17  - 47 24 56 -20 47 58  +1773.6386
15 18 18  - 45 38 38 -18 43 37  +1808.7616
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15 18 25  - 34 38  1 - 4 12 40  +1997.9968
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15 18 30  - 27 25  4 + 6  0 28  +2066.9811
15 18 31  - 25 58  1 + 8  1 58  +2073.7930
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15 18 33  - 23  1  1 +12  2  2  +2080.3156
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15 18 36  - 18 23 11 +17 57 23  +2072.2857
15 18 37  - 16 45 51 +19 54  3  +2064.8656
15 18 38  - 15  5 27 +21 49 55  +2055.1822
15 18 39  - 13 21 43 +23 44 37  +2042.9503
15 18 40  - 11 34  1 +25 37  5  +2028.4069
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15 18 58  + 42 44 23 +50 11 14  +1413.6355
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15 19  7  + 83 53 48 +44 32 57  + 944.6018
15 19  8  + 87 56  5 +42 53 11  + 892.0033
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15 19 11  + 98 59 47 +36 51 57  + 738.7738
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15 19 13  +105 32 30 +32  6 16  + 642.6849
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15 19 15  +111 31 45 +26 50 46  + 553.6359
15 19 16  +114 20 49 +24  3 27  + 512.3440
15 19 17  +117  4  3 +21 10 30  + 473.5181
15 19 18  +119 42 19 +18 12 31  + 437.3846
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15 19 20  +124 47 18 +12  3 51  + 374.0496
15 19 21  +127 15 45 + 8 54 20  + 347.2442
15 19 22  +129 42 34 + 5 42 10  + 323.9165
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15 19 24  +134 34 49 - 0 47 34  + 288.2832
15 19 25  +137  1 55 - 4  3 51  + 276.2136
15 19 26  +139 30 49 - 7 20 10  + 268.0891
15 19 27  +142  2 26 -10 35 49  + 263.9617
15 19 28  +144 37 42 -13 50  3  + 263.8529
15 19 29  +147 17 38 -17  2  6  + 267.7573
15 19 30  +150  3 14 -20 11 11  + 275.6391
15 19 31  +152 55 57 -23 16 26  + 287.4360
15 19 32  +155 55 58 -26 16 50  + 303.0500
15 19 33  +159  5 18 -29 11 50  + 322.3914
15 19 34  +162 25  1 -32  0 18  + 345.2993
15 19 35  +165 56 13 -34 40 55  + 371.6237
15 19 36  +169 40  4 -37 12 52  + 401.1901
15 19 37  +173 37 31 -39 34 55  + 433.5075
15 19 38  +177 49 21 -41 45 54  + 469.2740
15 19 39  -177 44  4 -43 44 37  + 507.3762
15 19 40  -173  2 51 -45 29 52  + 547.6945
15 19 41  -168  7 47 -47  0 30  + 590.6145
15 19 42  -163  0 25 -48 15 32  + 635.2789
15 19 43  -157 43  5 -49 14 10  + 681.0920
15 19 44  -152 18 55 -49 55 50  + 729.6110
15 19 45  -146 51 41 -50 20 21  + 778.8181
15 19 46  -141 25 19 -50 27 54  + 829.0919
15 19 47  -136  3 54 -50 18 60  + 880.2176
15 19 48  -130 51  3 -49 54 30  + 931.9873
15 19 49  -125 49 48 -49 15 34  + 984.1988
15 19 50  -121  2 26 -48 23 27  +1036.6584
15 19 51  -116 30 22 -47 19 36  +1089.1797
15 19 52  -112 14 19 -46  5 23  +1141.564
15 19 53  -108 14 24 -44 42 11  +1193.7031
15 19 54  -104 30 11 -43 11 16  +1245.3734
15 19 55  -101  0 59 -41 33 48  +1296.4422
15 19 56  - 97 45 48 -39 51 50  +1346.7639
15 19 57  - 94 43 40 -38  3 15  +1396.2019
15 19 58  - 91 53 24 -36 11 52  +1444.6260
15 19 59  - 89 13 56 -34 17 20  +1491.9152
15 20  0  - 86 44 17 -32 20 17  +1537.9548
15 20  1  - 84 23 22 -30 21 10  +1582.6381
15 20  2  - 82 10 21 -28 20 26  +1625.8647
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15 20 11  - 66  6 21 - 9 44 11  +1935.8777
15 20 12  - 64 37 25 - 7 39 48  +1960.3514
15 20 13  - 63  8  8 - 5 35 40  +1982.6469
15 20 14  - 61 40  8 - 3 31 53  +2002.7272
15 20 15  - 60 12 59 - 1 28 28  +2020.56[illegible]

15 20 15 43 - 59 10 46 P   674      +2031.74[illegible]

15 20 16  - 58 46 27 + 0 34 32  +2036.116[illegible]
15 20 17  - 57 20 11 + 2 37  9  +2049.3704
15 20 18  - 55 53 54 + 4 39  7  +2060.5013
15 20 19  - 54 27 15 + 6 [illegible]  +2068.6916
15 20 20  - 52 59 57 + 8 41 [illegible]  +2075.1260
15 20 21  - 51 31 4[illegible] +10 [illegible]  +2078.994[illegible]
15 20 22  - 50 [illegible] +12 41 39  +2080.4894
15 20 23  - 48 [illegible] +14 40 37  +2079.5069
15 20 24  - 46 [illegible]  +2076.[illegible]
15 20 25  - 45 [illegible]  +2071.[illegible]
15 20 26  - 43 43 54 +20 32 38  +2062.[illegible]
15 20 27  - 42 [illegible] +22 29  1  +2052.[illegible]
15 20 28  - 40 [illegible]  +2039.[illegible]
15 20 29  [illegible]  +202[illegible]
15 20 30  - 36 34 34 [illegible]  5 53  +20[illegible]
15 20 31  [illegible]  +194[illegible]
15 20 32  [illegible]
15 20 33  [illegible] 21 [illegible]
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15 20 35  [illegible]
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15 20 46  [illegible]
15 20 47  + 15 4[illegible]  +1401.4763
15 20 48  [illegible]  +1351.[illegible]
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15 20 50  + 30 [illegible]  13  +1249.1312
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15 20 59  + 69  5 41 +38 22 56  + 776.[illegible]
15 21  0  + 72 [illegible] +36 10 13  + 726.[illegible]
15 21  1  + 75 49  4 +33 46 59  + 678.[illegible]
15 21  2  + 78 56  4 +31 [illegible]  + 631.[illegible]
15 21  3  + 81 56 54 +28 43 30  + 586.1651
15 21  4  + 84 52 29 +26  0 32  + 543.1705
15 21  5  + 87 [illegible] 34 +2[illegible] 11 31  + 502.4664
```

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15 21  7   + 92 57 56 +17 17 48   + 428.8589
15 21  8   + 95 30 54 +14 14 15   + 396.3897
15 21  9   + 98  0 52 +11  7  2   + 367.0842
15 21 10   +100 28 41 + 7 56 44   + 341.1285
15 21 11   +102 55  8 + 4 43 58   + 318.6912
15 21 12   +105 21  7 + 1 29 21   + 299.9190
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15 21 16   +115 17  9 -11 34 15   + 263.5809
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15 21 19   +123 22 48 -21  7 14   + 278.2319
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15 21 21   +129 20 26 -27 10 14   + 307.5432
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 OOMERA 40   15 21 23 14.247
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15 21 25   +143 18 59 -37 56 55   + 409.0310
15 21 26   +147 20 53 -40 15 49   + 442.3718
15 21 27   +151 37 19 -42 23 18   + 478.5089
15 21 28   +156  8 33 -44 18  7   + 517.2276
15 21 29   +160 54 19 -45 59  6   + 558.3066
15 21 30   +165 53 35 -47 25  8   + 601.5209
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15 21 33   -178  9 36 -50  5 13   + 741.7004
15 21 34   -172 41 53 -50 24 29   + 791.1880
15 21 35   -167 16 20 -50 26 52   + 841.6881
15 21 36   -161 56 55 -50 13  1   + 892.9882
15 21 37   -156 47  5 -49 43 52   + 944.8815
15 21 38   -151 49 40 -49  0 38   + 997.1685
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15 21 41   -138 28  8 -45 40  4   +1154.5093
15 21 42   -134 32 59 -44 14 13   +1206.5294
15 21 43   -130 53 24 -42 41  1   +1258.0626
15 21 44   -127 28 32 -41  1 36   +1308.9579
15 21 45   -124 17 27 -39 16 58   +1359.0720
15 21 46   -121 19  3 -37 27 59   +1408.2698
15 21 47   -118 32 12 -35 35 25   +1456.4236
15 21 48   -115 55 50 -33 39 55   +1503.4137
15 21 49   -113 28 58 -31 42  2   +1549.1276
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15 21 52   -106 55 45 -25 38 31   +1677.5919
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```

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15 22 15   - 70 41 24 +21 11 11   +2060.3885
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15 22 20   - 61 26 37 +30 32 57   +1982.4549
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15 22 22   - 57  7 42 +34  5 42   +1935.3830
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15 22 28   - 40 57 36 +43 31 35   +1743.5851
15 22 29   - 37 40 32 +44 50 17   +1704.8139
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15 22 31   - 30 31 14 +47  8 20   +1622.0671
15 22 32   - 26 38 44 +48  6  4   +1578.2617
15 22 33   - 22 34 41 +48 55  5   +1532.9599
15 22 34   - 18 19 47 +49 34 31   +1486.2651
15 22 35   - 13 55 11 +50  3 30   +1438.2877
15 22 36   -  9 22 27 +50 21 14   +1389.1465
15 22 37   -  4 43 40 +50 26 59   +1338.9686
15 22 38   -  0  1  4 +50 20 13   +1287.8892
15 22 39   +  4 42 44 +50  0 32   +1236.0528
15 22 40   +  9 25 13 +49 27 43   +1183.6132
15 22 41   + 14  3 57 +48 41 45   +1130.7321
15 22 42   + 18 36 41 +47 42 49   +1077.5820
15 22 43   + 23  1 41 +46 31 15   +1024.3435
15 22 44   + 27 17 31 +45  7 30   + 971.2069
15 22 45   + 31 23 23 +43 32  8   + 918.3706
15 22 46   + 35 18 44 +41 45 47   + 866.0423
15 22 47   + 39  3 27 +39 49  6   + 814.4369
15 22 48   + 42 37 45 +37 42 46   + 763.7762
15 22 49   + 46  2  1 +35 27 28   + 714.2883
15 22 50   + 49 16 57 +33  3 50   + 666.2062
15 22 51   + 52 23 11 +30 32 32   + 619.7658
15 22 52   + 55 21 34 +27 54 12   + 575.2051
15 22 53   + 58 12 55 +25  9 25   + 532.7611
15 22 54   + 60 58  7 +22 18 47   + 492.6686
15 22 55   + 63 38  1 +19 22 55   + 455.1568
15 22 56   + 66 13 30 +16 22 22   + 420.4485
15 22 57   + 68 45 23 +13 17 44   + 388.7538
15 22 58   + 71 14 32 +10  9 36   + 360.2717
15 22 59   + 73 41 48 + 6 58 33   + 335.1837
15 23  0   + 76  7 57 + 3 45 13   + 313.6528
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15 23  2   + 81  0 27 - 2 45 46   + 281.8065
15 23  3   + 83 28 30 - 6  2  6   + 271.7010
15 23  4   + 85 58 54 - 9 18  4   + 265.5696
15 23  5   + 88 32 36 -12 32 57   + 263.4496
15 23  6   + 91 10 33 -15 45 59   + 265.3479
15 23  7   + 93 53 48 -18 56 23   + 271.2444
15 23  8   + 96 43 25 -22  3 19   + 281.0895
15 23  9   + 99 40 32 -25  5 57   + 294.8072
15 23 10   +102 46 17 -28  3 19   + 312.2950
15 23 11   +106  1 54 -30 54 30   + 333.4273
15 23 12   +109 28 37 -33 38 27   + 358.0562
15 23 13   +113  7 33 -36 14  7   + 386.0154
15 23 14   +116 59 48 -38 40 21   + 417.1221
15 23 15   +121  6 12 -40 55 59   + 451.1793
15 23 16   +125 27 20 -42 59 48   + 487.9790
15 23 17   +130  3 17 -44 50 35   + 527.3051
15 23 18   +134 53 32 -46 27  9   + 568.9355
15 23 19   +139 56 51 -47 48 28   + 612.6437
15 23 20   +145 11 10 -48 53 35   + 658.2022
15 23 21   +150 33 40 -49 41 54   + 705.3843
15 23 22   +156  0 46 -50 13  2   + 753.9642
15 23 23   +161 28 33 -50 27  1   + 803.7203
15 23 24   +166 52 54 -50 24 16   + 854.4357
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15 23 26   +177 16 29 -49 31 46   + 957.9051
15 23 27   -177 50 11 -48 44 20   +1010.2565
15 23 28   -173 11 45 -47 44 33   +1062.7631
15 23 29   -168 49 12 -46 33 52   +1115.2418
15 23 30   -164 42 52 -45 13 40   +1167.5198
15 23 31   -160 52 31 -43 45 16   +1219.4304
15 23 32   -157 17 31 -42  9 53   +1270.8164
15 23 33   -153 56 58 -40 28 36   +1321.5283
15 23 34   -150 49 53 -38 42 22   +1371.4249
15 23 35   -147 55  8 -36 52  3   +1420.3728
15 23 36   -145 11 38 -34 58 22   +1468.2468
15 23 37   -142 38 17 -33  1 57   +1514.9285
15 23 38   -140 14  8 -31  2 18   +1560.3080
15 23 39   -137 58 10 -29  2 53   +1604.2806
15 23 40   -135 49 34 -27  1  4   +1646.7495
15 23 41   -133 47 28 -24 58 12   +1687.6247
15 23 42   -131 51 10 -22 54 32   +1726.8215
15 23 43   -130  0  1 -20 50 18   +1764.2621
15 23 44   -128 13 21 -18 45 40   +1799.8730
15 23 45   -126 30 39 -16 40 50   +1833.5880
15 23 46   -124 51 23 -14 35 54   +1865.3445
15 23 47   -123 15  5 -12 30 59   +1895.0863
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15 23 49   -120  9 41 - 8 21 36   +1948.3191
15 23 50   -118 39 47 - 6 17 16   +1971.7206
15 23 51   -117 11 17 - 4 13 15   +1992.9246
15 23 52   -115 43 48 - 2  9 36   +2011.8967
15 23 53   -114 17  2 - 0  6 22   +2028.6059

15 23 53  3 -114 12 33 P  676     +2029.3521

15 23 54   -112 50 40 + 1 56 25   +2043.0252
15 23 55   -111 24 22 + 3 58 42   +2055.1314
15 23 56   -109 57 50 + 6  0 27   +2064.9045
15 23 57   -108 30 45 + 8  1 39   +2072.3287
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16  0  4   - 97 38 18 +21 49 52   +2057.9029
16  0  5   - 95 54 37 +23 44 29   +2046.3719
16  0  6   - 94  7  2 +25 37 52   +2032.5035
16  0  7   - 92 15  6 +27 29 52   +2016.3171
16  0  8   - 90 18 19 +29 20 19   +1997.8350
16  0  9   - 88 16  5 +31  9  1   +1977.0841
16  0 10   - 86  7 50 +32 55 44   +1954.0957
16  0 11   - 83 52 54 +34 40 12   +1928.9050
 HAVANA 47   16 0  11 34.486
               +46.9361   2502.2974     N
16  0 12   - 81 30 40 +36 22  5   +1901.5511
 FTSTEW 46   16 0  12  0.195
               +18.6022   1981.6978     N
16  0 13   - 79  0 24 +38  1  2   +1872.0789
 BPOINT 49   16 0  13 43.480
               + 3.3132   1851.7942     N
16  0 14   - 76 21 24 +39 36 37   +1840.5371
16  0 15   - 73 32 58 +41  8 22   +1806.9800
16  0 16   - 70 34 23 +42 35 44   +1771.4668
16  0 17   - 67 25  0 +43 58  6   +1734.0627
16  0 18   - 64  4 20 +45 14 48   +1694.8387
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16  0 20   - 56 47 36 +47 28  5   +1611.2461
16  0 21   - 52 51 30 +48 23  2   +1567.0513
16  0 22   - 48 44  2 +49  8 59   +1521.3850
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16  0 25   - 35 24 14 +50 24 25   +1376.6467
16  0 26   - 30 44 12 +50 26 12   +1326.2239
16  0 27   - 26  1 13 +50 15 20   +1274.9348
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16  0 30   - 11 59 48 +48 24 25   +1117.3842
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16  0 34   +  5  7 15 +42 59 53   + 905.1353
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16  0 37   + 16 11 11 +37  1 32   + 751.1818
16  0 38   + 19 32 19 +34 43 41   + 702.0229
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16  0 40   + 25 47 53 +29 44 17   + 608.3393
16  0 41   + 28 43 51 +27  3 60   + 564.2885
16  0 42   + 31 33  7 +24 17 28   + 522.4150
16  0 43   + 34 16 28 +21 25 16   + 482.9521
16  0 44   + 36 54 50 +18 28  0   + 446.1276
16  0 45   + 39 29  2 +15 26 14   + 412.1607
16  0 46   + 41 59 54 +12 20 33   + 381.2597
16  0 47   + 44 28 20 + 9 11 32   + 353.6196
16  0 48   + 46 55  5 + 5 59 48   + 329.4168
16  0 49   + 49 21  4 + 2 45 58   + 308.8096
16  0 50   + 51 47  4 - 0 29 21   + 291.9334
16  0 51   + 54 13 57 - 3 45 29   + 278.9004
16  0 52   + 56 42 35 - 7  1 46   + 269.7956
16  0 53   + 59 13 52 -10 17 28   + 264.6766
16  0 54   + 61 48 45 -13 31 52   + 263.5730
16  0 55   + 64 28 14 -16 44 12   + 266.4854
16  0 56   + 67 13 20 -19 53 40   + 273.3852
16  0 57   + 70  5  8 -22 59 25   + 284.2167
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16   0 59   + 76  13 29  -28 56 14   + 317.3166
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16   1  2   + 86  45 53  -36 59 57   + 393.5976
16   1  3   + 90  42 32  -39 23  8   + 425.4650
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16   1  6   +104   0  4  -45 21 57   + 537.6092
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16   1  9   +119  19 26  -49 10 26   + 669.9570
16   1 10   +124  44  3  -49 53 27   + 717.5076
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16   1 12   +135  39 31  -50 27 56   + 816.4137
16   1 13   +141   2 17  -50 20  3   + 667.3329
16   1 14   +146  16 40  -49 56 26   + 918.9478
16   1 15   +151  19 32  -49 18 12   + 971.0555
16   1 16   +156   8 37  -48 26 39   +1023.4595
16   1 17   +160  42 20  -47 23 12   +1075.9727
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16   1 19   +169   1 24  -44 46 14   +1180.6126
16   1 20   +172  47  0  -43 15 23   +1232.4035
16   1 21   +176  17 27  -41 37 53   +1283.6314
16   1 22   +179  33 45  -39 54 49   +1334.1499
16   1 23   -177  23  4  -38  7  5   +1383.8190
16   1 24   -174  31 55  -36 15 30   +1432.5073
16   1 25   -171  51 40  -34 20 45   +1480.0921
16   1 26   -169  21 18  -32 23 26   +1526.4564
16   1 27   -166  59 46  -30 24  3   +1571.4917
16   1 28   -164  46 12  -28 23  3   +1615.0957
16   1 29   -162  39 41  -26 20 45   +1657.1730
16   1 30   -160  39 29  -24 17 30   +1697.6352
16   1 31   -158  44 52  -22 13 31   +1736.3988
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16   1 33   -155   9 47  -18  4 14   +1808.5296
16   1 34   -153  28 12  -15 59 16   +1841.7597
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16   1 37   -148  41 22  - 9 44 29   +1929.3943
16   1 38   -147  10 17  - 7 39 54   +1954.4171
16   1 39   -145  40 51  - 5 35 37   +1977.2712
16   1 40   -144  12 41  - 3 31 40   +1997.9194
16   1 41   -142  45 26  - 1 26  6   +2016.3274

16   1 41 42 -141 43 29 P   677      +2027.8676

16   1 42   -141  18 49  + 0 35  2   +2032.4651
16   1 43   -139  52 28  + 2 37 41   +2046.3063
16   1 44   -138  26  6  + 4 39 49   +2057.8293
16   1 45   -136  59 23  + 6 41 25   +2067.0147
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16   1 47   -134   3 43  +10 42 47   +2078.3155
16   1 48   -132  34  7  +12 42 29   +2080.4109
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16   1 52   -126  15 57  +20 33 19   +2065.0200
16   1 53   -124  34 36  +22 28 39   +2055.2486
16   1 54   -122  49 40  +24 22 50   +2043.1267
16   1 55   -121   0 44  +26 15 44   +2028.6719
16   1 56   -119   7 16  +28  7 12   +2011.9037
16   1 57   -117   8 46  +29 57  3   +1992.8462
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16   2  0   -110  37  4  +35 14 36   +1922.2357
16   2  1   -108  12 18  +36 55 29   +1894.3405
16   2  2   -105  39 19  +38 33 18   +1864.3385
16   2  3   -102  57 20  +40  7 37   +1832.2797
16   2  4   -100   5 44  +41 37 54   +1798.2197
16   2  5   - 97   3 46  +43  3 37   +1762.2192
16   2  6   - 93  50 51  +44 24  6   +1724.3445
16   2  7   - 90  26 30  +45 38 44   +1684.6685
16   2  8   - 86  50 20  +46 46 39   +1643.2698
16   2  9   - 83   2 20  +47 47  4   +1600.2338
16   2 10   - 79   2 38  +48 39  7   +1555.6524
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16   2 12   - 70  30 56  +49 54 35   +1462.2594
16   2 13   - 66   1 22  +50 16 19   +1413.6692
16   2 14   - 61  24 59  +50 26 21   +1363.9779
16   2 15   - 56  44  1  +50 24  5   +1313.3164
16   2 16   - 52   0 53  +50  9  3   +1261.8255
16   2 17   - 47  18 11  +49 41  0   +1209.6539
16   2 18   - 42  36 23  +48 59 51   +1156.9595
16   2 19   - 38   3 47  +46  5 41   +1103.9096
16   2 20   - 33  36 19  +46 58 47   +1050.6815
16   2 21   - 29  17 28  +45 39 34   + 997.4604
16   2 22   - 25   8 21  +44  6 34   + 944.4405
16   2 23   - 21   9 32  +42 26 23   + 891.8257
16   2 24   - 17  21 18  +40 33 39   + 839.8276
16   2 25   - 13  43 34  +38 31  3   + 788.6646
16   2 26   - 10  15 57  +36 19 14   + 738.5620
16   2 27   -  6  57 57  +33 58 53   + 689.7508
16   2 28   -  3  48 49  +31 30 36   + 642.4656
16   2 29   -  0  47 51  +28 55  6   + 596.9436
16   2 30   +  2   5 49  +26 12 56   + 553.4232
16   2 31   +  4  53  2  +23 24 41   + 512.1400
16   2 32   +  7  34 39  +20 35 58   + 473.3270
16   2 33   + 10  11 32  +17 32 21   + 437.2092
16   2 34   + 12  44 32  +14 29 24   + 404.0041
16   2 35   + 15  14 30  +11 22 43   + 373.9165
16   2 36   + 17  42 15  + 8 12 53   + 347.1363
16   2 37   + 20   8 38  + 5  0 30   + 323.8365
16   2 38   + 22  34 28  + 1 46 11   + 304.1689
16   2 39   + 25   0 38  - 1 29 24   + 288.2638
16   2 40   + 27  27 55  - 4 45 37   + 276.2255
16   2 41   + 29  57 15  - 8  1 46   + 268.1330
16   2 42   + 32  29 31  -11 17  9   + 264.0359
16   2 43   + 35   5 42  -14 30 60   + 263.9575
16   2 44   + 37  46 49  -17 42 33   + 267.8899
16   2 45   + 40  33 51  -20 50 60   + 275.7979
16   2 46   + 43  27 60  -23 55 28   + 287.6180
16   2 47   + 46  30 21  -26 55  6   + 303.2604
16   2 48   + 49  42  8  -29 48 55   + 322.6109
16   2 49   + 53   4 34  -32 35 55   + 345.5323
16   2 50   + 56  38 50  -35 15  3   + 371.8667
16   2 51   + 60  26  4  -37 45 13   + 401.4399
16   2 52   + 64  27 12  -40  5 13   + 434.0607
16   2 53   + 68  42 58  -42 13 51   + 469.5271
16   2 54   + 73  13 39  -44  9 54   + 507.6263
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16   3  9   +146  25 33  -42 44 33   +1245.4448
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16   3 12   +156   2 58  -37 31  6   +1396.2509
16   3 13   +158  50 36  -35 38 18   +1444.6703
16   3 14   +161  27 40  -33 42 33   +1491.9561
16   3 15   +163  55 10  -31 44 24   +1537.9934
16   3 16   +166  14  7  -29 44 20   +1582.6754
16   3 17   +168  25 24  -27 42 46   +1625.9018
16   3 18   +170  29 51  -25 40  1   +1667.5769
16   3 19   +172  26 13  -23 36 24   +1707.6193
16   3 20   +174  21 14  -21 32  8   +1745.9415
16   3 21   +176   9 32  -19 27 26   +1782.4703
16   3 22   +177  53 40  -17 22 26   +1817.1357
16   3 23   +179  34 10  -15 17 23   +1849.8735
16   3 24   -178  46 27  -13 12 18   +1880.6234
16   3 25   -177  13 47  -11  7 19   +1909.3314
16   3 26   -175  41 21  - 9  2 31   +1935.9479
16   3 27   -174  10 49  - 6 57 57   +1960.4270
16   3 28   -172  41 49  - 4 53 43   +1982.7274
16   3 29   -171  13 56  - 2 49 50   +2002.8131
16   3 30   -169  46 55  - 0 46 22   +2020.6499

16   3 30 22 -169 14 19 P   676      +2026.5091

16   3 31   -168  20 22  + 1 16 38   +2036.2099
16   3 32   -166  54  2  + 3 19  9   +2049.4676
16   3 33   -165  27 33  + 5 21  9   +2060.4010
16   3 34   -164   0 39  + 7 22 34   +2068.9926
16   3 35   -162  32 59  + 9 23 23   +2075.2280
16   3 36   -161   4 17  +11 23 32   +2079.0962
16   3 37   -159  34 10  +13 22 60   +2080.5902
16   3 38   -158   2 19  +15 21 42   +2079.7048
16   3 39   -156  28 22  +17 19 35   +2076.4408
16   3 40   -154  51 58  +19 16 35   +2070.8008
16   3 41   -153  12 45  +21 12 35   +2062.7909
16   3 42   -151  30 14  +23  7 32   +2052.4210
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16   3 44   -147  53 40  +26 53 40   +2024.6602
16   3 45   -145  58 36  +28 44 34   +2007.3067
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16   3 47   -141  52 12  +32 21  5   +1965.7798
16   3 48   -139  39 42  +34  6 13   +1941.6673
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16   3 59   -105  12  9  +48 54 16   +1544.0645
16   4  0   -100  58  7  +49 33 48   +1497.6807
16   4  1   - 96  34 28  +50  2 57   +1449.9856
16   4  2   - 92   2 41  +50 20 54   +1401.0973
16   4  3   - 87  24 49  +50 26 59   +1351.1397
16   4  4   - 82  43  8  +50 20 36   +1300.2477
16   4  5   - 78   0  7  +50  1 24   +1248.5624
 BPOINT 49   16 4   5 11.446
                    +54.3812   1664.6102     S
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16 21 58  - 46  7 34 +39 43 58   +1856.8444
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16 22  4  - 26 37 38 +47 28 41   +1636.6918
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16 22 10  -  0 48 28 +50 22 50   +1358.4053
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16 22 12  +  8 31 34 +49 48 32   +1256.6101
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16 22 19  + 38 31 22 +41 16 54   + 887.9507
16 22 20  + 42 11 14 +39 19 20   + 836.1543
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16 22 24  + 55 15 26 +30  2  4   + 639.6107
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16 22 27  + 63 42 41 +21 49 51   + 509.8863
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16 22 39  + 93 48  6 -16  6  8   + 263.1112
16 22 40  + 96 32 12 -19 16  4   + 267.0267
16 22 41  + 99 22 56 -22 22 35   + 274.8910
16 22 42  +102 21 25 -25 24 47   + 286.6410
16 22 43  +105 28 50 -28 21 45   + 302.1873
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16 22 54  +153 54  3 -49 45 43   + 678.4345
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16 22 56  +164 54 45 -50 24 35   + 774.9589
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16 23 29  -106 48 56 + 7  1  1   +2051.2221
16 23 30  -105 21  4 + 9  2  9   +2059.8108
16 23 31  -103 52 14 +11  2 35   +2066.0493
16 23 32  -102 22  4 +13  2 17   +2069.9268
16 23 33  -100 50 18 +15  1  9   +2071.4352
16 23 34  - 99 16 33 +16 59 10   +2070.5709
16 23 35  - 97 40 27 +18 56 15   +2067.3327
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16 23 37  - 94 19 41 +22 47 15   +2053.7496
16 23 38  - 92 34 11 +24 40 57   +2043.4208
16 23 39  - 90 44 39 +26 33 18   +2030.7501
16 23 40  - 88 50 36 +28 24  7   +2015.7551
16 23 41  - 86 51 30 +30 13 15   +1998.4564
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16 23 51  - 60  6 51 +45 43 39   +1706.3592
16 23 52  - 56 31 22 +46 50 12   +1666.3354
16 23 53  - 52 44 18 +47 49 15   +1624.6145
16 23 54  - 48 45 56 +48 39 60   +1581.2841
16 23 55  - 44 36 48 +49 21 34   +1536.4385
16 23 56  - 40 17 57 +49 53  8   +1490.1786
16 23 57  - 35 50 46 +50 13 55   +1442.6148
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17  0  1  - 17 19 41 +49 37  2   +1241.7828
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17  0  7  +  8 32 18 +42 27 55   + 925.2743
17  0  8  + 12 18 38 +40 36 51   + 873.0108
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17  0 11  + 22 37 47 +34  7 48   + 721.1941
17  0 12  + 25 45 54 +31 41 36   + 673.0003
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17  0 14  + 31 38 57 +26 28  5   + 581.6307
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17  0 22  + 52  3 38 + 2 15  4   + 316.6074
17  0 23  + 54 29 16 - 0 59 30   + 298.1265
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17   1  9   -147  4 35 -10 47 34   +1880.2189
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17   1 13   -141  2 40 - 2 27 35   +1979.6514
17   1 14   -139 35  7 - 0 23 39   +1999.0619

17   1 14 11 -139 18 26 P   690    +2002.3468

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17   3  8   -159 15 30 +10 32 34   +2063.7364
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17 23 10   - 90  7 43 +24 41 45   +2055.2830
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19 15 37   +152 22 44 +22 57 55   + 615.643
19 15 38   +154 58 27 +20  9  1   + 571.3394
19 15 39   +157 30  8 +17 15 15   + 529.1795
19 15 40   +159 58 32 +14 17  4   + 489.3953
19 15 41   +162 24 29 +11 14 59   + 452.2135
19 15 42   +164 48 43 + 8  9 30   + 417.8522
19 15 43   +167 12  3 + 5  1  8   + 386.5176
19 15 44   +169 35 14 + 1 50 26   + 358.4023
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19 15 48   +179 23 22 -11  3 41   + 281.3419
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19 15 52   -169 38 57 -23 42 19   + 265.8516
19 15 53   -166 35 32 -26 43 25   + 271.8759
19 15 54   -163 22  2 -29 39 10   + 281.7946
19 15 55   -159 57  9 -32 28 30   + 295.5297
19 15 56   -156 19 31 -35 10 12   + 312.9778
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19 16  0   -139 19 40 -44 15  1   + 417.1006
19 16  1   -134 24 44 -45 58 47   + 450.8606
19 16  2   -129 14 50 -47 26 52   + 487.3245
19 16  3   -123 51 55 -48 38  5   + 526.2813
19 16  4   -118 18 55 -49 31 32   + 567.5142
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19 16  9   - 90 28 38 -49 27 48   + 800.1044
19 16 10   - 85 22 28 -48 37 40   + 850.3780
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19 19 11   + 88 34 35 +31 15  6   + 773.5257
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19 20 21  - 63 23 50 +18  2 44  +2068.2444
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19 21 39  -153  8  3 -44 28 51  +1008.4536
19 21 40  -149 13 49 -42 52 12  +1060.5769
19 21 41  -145 35 56 -41  8 29  +1112.6850
19 21 42  -142 13 21 -39 18 55  +1164.6049
19 21 43  -139  4 50 -37 24 31  +1216.1736
19 21 44  -136  9  9 -35 26 13  +1267.2347
19 21 45  -133 25  3 -33 24 47  +1317.6395
19 21 46  -130 51 22 -31 20 52  +1367.2473
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19 21 48  -126 10 54 -27  7 45  +1463.5479
19 21 49  -124  2 12 -24 59 25  +1509.9966
19 21 50  -121 59 58 -22 50 21  +1555.1601
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19 21 54  -114 41 54 -14 11 47  +1720.9692
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19 21 56  -111 24 60 - 9 53 31  +1793.7462
19 21 57  -109 50 20 - 7 45  4  +1827.3391
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19 21 59  -106 46 31 - 3 29 54  +1888.6159
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19 22  4  - 99 22  8 + 6 55 13  +2004.9355
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19 22  8  - 93 20 21 +14 59 12  +2057.5288
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19 22 10  - 90 10  7 +18 54 47  +2069.7754
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19 22 12  - 86 49 52 +22 45 22  +2072.5104
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 FTSTEW 48  19 22 14 56.511
              -15.0933  2114.0744    N
 HAVANA 47  19 22 14 23.923
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19 22 25  - 56 44 40 +44 13 41  +1861.4081
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19 22 38  -  3 40 11 +48 37 37  +1312.0371
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19 22 46  + 26 56 20 +36 14 22  + 890.7720
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19 22 48  + 33  6 54 +31 38 14  + 787.7143
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19 22 54  + 49  8 26 +15 18 35  + 511.7722
19 22 55  + 51 34 45 +12 18 14  + 473.0887
19 22 56  + 53 59  7 + 9 14 17  + 437.1049
19 22 57  + 56 22 22 + 6  7 15  + 404.0326
19 22 58  + 58 45 11 + 2 57 39  + 374.0734
19 22 59  + 61  8 29 - 0 13 56  + 347.4116
19 23  0  + 63 32 60 - 3 26 56  + 324.2148
19 23  1  + 65 59 38 - 6 40 42  + 304.6297
19 23  2  + 68 29 18 - 9 54 36  + 288.7801
19 23  3  + 71  2 53 -13  7 53  + 276.7655
19 23  4  + 73 41 28 -16 19 50  + 268.6592
19 23  5  + 76 26  2 -19 29 37  + 264.5074
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19 23 18  +129 47 49 -49 15 28  + 543.7573
19 23 19  +135 26 27 -49 56 57  + 585.8795
19 23 20  +141  8 36 -50 19 52  + 629.9625
19 23 21  +146 49 33 -50 24 21  + 675.7860
19 23 22  +152 24 47 -50 11  2  + 723.1284
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19 23 24  +163  2 14 -48 55 14  + 821.5035
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19 23 26  +172 38 11 -46 43 30  + 923.3910
19 23 27  +176 59 58 -45 20 39  + 975.1456
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19 23 47  -135  6 33 - 4 40 41  +1869.8897
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19 23 49 13 -131 47  6 P  729   +1930.9685

19 23 50  -130 37 32 + 1 38 16  +1950.3030
19 23 51  -129  9  4 + 3 43  1  +1972.8248
19 23 52  -127 40 39 + 5 46 56  +1993.1358
19 23 53  -126 11 57 + 7 49 58  +2011.2025
19 23 54  -124 42 39 + 9 52  3  +2026.9942
19 23 55  -123 12 26 +11 53 10  +2040.4837
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20  0  5  -106  1 18 +30 55 49  +2045.4393
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20  0  7  -101 44 58 +34 23 25  +2017.9515
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20  0  9  - 97  2 18 +37 40 21  +1981.1787
20  0 10  - 94 29 34 +39 14  1  +1959.3738
20  0 11  - 91 48 25 +40 43 57  +1935.3331
20  0 12  - 88 58 15 +42  9 43  +1909.0931
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20  0 27  - 29 17  1 +48 14 51  +1293.5196
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20  0 30  - 16 52 45 +44 38 47  +1136.6089
20  0 31  - 13  1 56 +43  5 21  +1083.4923
20  0 32  -  9 20 32 +41 22  1  +1030.2651
20  0 33  -  5 48 36 +39 29 22  + 977.1184
20  0 34  -  2 25 52 +37 27 54  + 924.2522
20  0 35  +  0 48  3 +35 18 12  + 871.8744
20  0 36  +  3 53 41 +33  0 45  + 820.2017
20  0 37  +  6 51 40 +30 36  6  + 769.4555
20  0 38  +  9 42 44 +28  4 43  + 719.8653
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```

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20  1 28  -175 16 38 -20 56 50  +1586.8637
20  1 29  -173 24 25 -18 46 54  +1629.5784
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20  1 32  -168 12 30 -12 17 33  +1748.0576
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20  1 34  -164 59 56 - 7 59 40  +1818.1884
20  1 35  -163 26 54 - 5 51 32  +1850.3866
20  1 36  -161 55 29 - 3 44  2  +1880.5917
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20  1 41  -154 30 22 + 6 42  8  +1999.9583
20  1 42  -153  1 25 + 8 44 47  +2017.2079
20  1 43  -151 31 43 +10 46 29  +2032.1715
20  1 44  -150  0 57 +12 47 11  +2044.8235
20  1 45  -148 28 49 +14 46 50  +2055.1425
20  1 46  -146 54 55 +16 45 22  +2063.1103
20  1 47  -145 18 57 +18 42 43  +2068.7116
20  1 48  -143 40 31 +20 38 50  +2071.9360
20  1 49  -141 59 16 +22 33 36  +2072.7754
20  1 50  -140 14 45 +24 26 56  +2071.2272
20  1 51  -138 26 35 +26 18 42  +2067.2899
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20  1 53  -134 37 18 +29 57  1  +2052.2655
20  1 54  -132 35 14 +31 43 12  +2041.1950
20  1 55  -130 27 29 +33 27  7  +2027.7704
20  1 56  -128 13 30 +35  8 33  +2012.0097
20  1 57  -125 52 39 +36 47 10  +1993.9344
20  1 58  -123 24 23 +38 22 41  +1973.5710
20  1 59  -120 48  2 +39 54 41  +1950.9493
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20  2  4  -105 25 39 +46 25 33  +1805.3403
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20  2  6  - 98  4 23 +48 18 29  +1732.8692
20  2  7  - 94  8 26 +49  2 52  +1693.8354
20  2  8  - 90  3  9 +49 38 13  +1653.0375
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 BPOINT 49   20 2  10 59.358
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20  2 39  + 13  4 21 - 9 22 15  + 292.7953
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20  2 55  + 73 55  7 -49  7 12  + 532.6044
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20  2 57  + 85 15 44 -50 17 31  + 617.6973
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```

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20  3  3  +116 59 15 -46 54 42  + 909.2258
20  3  4  +121 24  8 -45 33 10  + 960.8631
20  3  5  +125 31 23 -44  2  7  +1012.8361
20  3  6  +129 21 32 -42 23  2  +1064.9586
20  3  7  +132 55 32 -40 37 12  +1117.0521
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20  3 20  +163 22 36 -13 29 33  +1724.2027
20  3 21  +165  1 45 -11 20  3  +1761.3582
20  3 22  +166 38 11 - 9 10 59  +1796.6896
20  3 23  +168 12 23 - 7  2 26  +1830.1285
20  3 24  +169 44 42 - 4 54 30  +1861.6122
20  3 25  +171 15 35 - 2 47 13  +1891.0825
20  3 26  +172 45 20 - 0 40 40  +1918.4855

20  3 26 19 +173 14  3 P  731   +1926.6439

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20  3 29  +177 11 28 + 5 34 12  +1987.8284
20  3 30  +178 40 12 + 7 37 25  +2006.5204
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20  3 34  -175 16  3 +15 40 25  +2058.3472
20  3 35  -173 41 15 +17 38 26  +2065.4573
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20  3 37  -170 24 34 +21 30 47  +2072.5542
20  3 38  -168 41 53 +23 24 [illegible]  [illegible]
20  3 39  -166 55 47 +25 17 33  +2070.1087
20  3 40  -165  5 48 +27  8 35  +2065.3024
20  3 41  -163 11 28 +28 57 50  +2058.1123
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20  3 44  -156 57 20 +34 13  6  +2022.3376
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20  3 46  -152 16 21 +37 30 30  +1986.8155
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20  3 50  -141 17  0 +43 22 21  +1888.7174
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20  3 52  -134 49 46 +45 49 12  +1826.7584
20  3 53  -131 20 25 +46 53 17  +1792.7251
20  3 54  -127 40 29 +47 50 12  +1756.7368
20  3 55  -123 50 14 +48 39 15  +1718.8596
20  3 56  -119 50 12 +49 19 41  +1679.1684
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20 21 31 43 -101 34 58 P  741   +1887.1850

20 21 32  -101  9 27 + 0 36  6  +1895.1235
20 21 33  - 99 40  9 + 2 42 41  +1921.0073
20 21 34  - 98 11  8 + 4 48 22  +1944.7676
20 21 35  - 96 42  3 + 6 53  5  +1966.3623
20 21 36  - 95 12 34 + 8 56 48  +1985.7539
20 21 37  - 93 42 22 +10 59 29  +2002.9081
20 21 38  - 92 11  8 +13  1  4  +2017.7961
20 21 39  - 90 38 29 +15  1 31  +2030.3914
20 21 40  - 89  4  9 +17  0 46  +2040.6712
20 21 41  - 87 27 41 +18 58 45  +2048.6179
20 21 42  - 85 48 48 +20 55 23  +2054.2161
20 21 43  - 84  7  4 +22 50 36  +2057.4539
 HAVANA 47  20 21 43 54.288
              + 6.8749  2069.5437    N
20 21 44  - 82 22  5 +24 44 17  +2058.3248
 FTSTEW 48  20 21 44 28.894
              -24.8386  2210.9841    N
20 21 45  - 80 33 25 +26 36 19  +2056.8241
20 21 46  - 78 40 37 +28 26 34  +2052.9511
  POINT 49  20 21 46 48.599
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              -32.4880  2318.1233    N
20 21 47  - 76 43 11 +30 14 52  +2046.7088
20 21 48  - 74 40 38 +32  1  2  +2038.1039
20 21 49  - 72 32 25 +33 44 50  +2027.1466
20 21 50  - 70 17 57 +35 26  3  +2013.8507
20 21 51  - 67 56 41 +37  4 23  +1998.2346
20 21 52  - 65 27 58 +38 39 31  +1980.3195
20 21 53  - 62 51 15 +40 11  3  +1960.1321
20 21 54  - 60  5 53 +41 38 35  +1937.7026
20 21 55  - 57 11 23 +43  1 39  +1913.0652
20 21 56  - 54  7 10 +44 19 43  +1886.2586
20 21 57  - 50 52 51 +45 32 13  +1857.3273
20 21 58  - 47 28 13 +46 38 31  +1826.3206
20 21 59  - 43 53  7 +47 37 56  +1793.2919
20 22  0  - 40  7 46 +48 29 48  +1758.3015
20 22  1  - 36 12 33 +49 13 23  +1721.4146
20 22  2  - 32  8 17 +49 47 58  +1682.7029
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20 22  4  - 23 37 21 +50 27 32  +1600.1222
20 22  5  - 19 13 52 +50 31 21  +1556.4296
20 22  6  - 14 47 37 +50 23 57  +1511.2644
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20 22  9  -  1 33 12 +48 52 17  +1368.0372
20 22 10  +  2 43 36 +47 58 35  +1318.1254
20 22 11  +  6 53 39 +46 53 40  +1267.3549
20 22 12  + 10 55 49 +45 37 52  +1215.8738
20 22 13  + 14 49 17 +44 11 39  +1163.8387
20 22 14  + 18 33 35 +42 35 28  +1111.4176
20 22 15  + 22  8 35 +40 49 52  +1058.7856
20 22 16  + 25 34 19 +38 55 20  +1006.1272
20 22 17  + 28 51  9 +36 52 25  + 953.6359
20 22 18  + 31 59 28 +34 41 37  + 901.5135
20 22 19  + 34 59 54 +32 23 26  + 849.9693
20 22 20  + 37 53  4 +29 58 20  + 799.2199
20 22 21  + 40 39 40 +27 26 48  + 749.4883
20 22 22  + 43 20 26 +24 49 16  + 701.0012
20 22 23  + 45 56  6 +22  6 10  + 653.9908
20 22 24  + 48 27 26 +19 17 56  + 608.6896
20 22 25  + 50 55 10 +16 25  1  + 565.3304
20 22 26  + 53 20  4 +13 27 52  + 524.1450
20 22 27  + 55 42 52 +10 26 54  + 485.3597
20 22 28  + 58  4 19 + 7 22 38  + 449.1948
20 22 29  + 60 25 13 + 4 15 31  + 415.8613
20 22 30  + 62 46 19 + 1  6  5  + 385.5572
20 22 31  + 65  8 23 - 2  5  8  + 358.4675
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20 22 33  + 69 58 56 - 8 30 28  + 314.5777
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20 22 35  + 75  4  3 -14 55 19  + 285.2787
20 22 36  + 77 44 32 -18  5 45  + 276.3397
20 22 37  + 80 31 49 -21 13 46  + 271.2823
20 22 38  + 83 27  3 -24 18 29  + 270.1303
20 22 39  + 86 31 34 -27 18 56  + 272.8802
20 22 40  + 89 46 39 -30 14  4  + 279.5009
20 22 41  + 93 13 41 -33  2 45  + 289.9358
20 22 42  + 96 54  7 -35 43 48  + 304.1031
20 22 43  +100 49 10 -38 15 53  + 321.8979
20 22 44  +105  0  3 -40 37 38  + 343.1950
20 22 45  +109 27 32 -42 47 33  + 367.8481
20 22 46  +114 11 59 -44 44 10  + 395.6955
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20 22 48  +124 29 32 -47 51 38  + 460.2527
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20 22 52  +147 10 42 -50 32 56  + 619.2349
20 22 53  +152 53 25 -50 26 31  + 663.9710
20 22 54  +158 27 44 -50  2 20  + 710.2725
20 22 55  +163 49 51 -49 21 40  + 757.9246
20 22 56  +168 56 47 -48 25 58  + 806.7163
20 22 57  +173 46 40 -47 16 55  + 856.4397
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20 22 59  -177 27 43 -44 25 20  + 957.8800
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20 23  3  -163 19 12 -37  9 52  +1163.4559
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20 23  5  -157 38 18 -33  4 30  +1264.8294
20 23  6  -155  4 16 -30 57 50  +1314.6161
20 23  7  -152 39 37 -28 49 19  +1363.6156
20 23  8  -150 23 20 -26 39 26  +1411.6955
20 23  9  -148 14 26 -24 28 34  +1458.7317
20 23 10  -146 12  4 -22 17  4  +1504.6065
20 23 11  -144 15 28 -20  5 13  +1549.2094
20 23 12  -142 23 53 -17 53 15  +1592.4367
20 23 13  -140 36 42 -15 41 22  +1634.1901
20 23 14  -138 53 21 -13 29 43  +1674.3799
20 23 15  -137 13 14 -11 18 27  +1712.9199
20 23 16  -135 35 55 - 9  7 41  +1749.7312
20 23 17  -134  0 57 - 6 57 30  +1784.7395
20 23 18  -132 27 52 - 4 47 60  +1817.8760
20 23 19  -130 56 20 - 2 39 13  +1849.0790
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20 23 20 14 -129  3 56 P  742   +1884.9482

20 23 21  -127 56 18 + 1 35 53  +1905.4505
20 23 22  -126 27  8 + 3 42  6  +1930.5177
20 23 23  -124 58  3 + 5 47 24  +1953.4442
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20 23 25  -121 58 58 + 9 54 59  +1992.7184
20 23 26  -120 28 17 +11 57 11  +2008.9971
20 23 27  -118 56 23 +13 58 17  +2022.9991
20 23 28  -117 22 58 +15 58 12  +2034.6981
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              -53.6967  2885.6148    N
20 23 29  -115 47 38 +17 56 53  +2044.0750
20 23 30  -114 10  4 +19 54 15  +2051.1109
20 23 31  -112 29 51 +21 50 14  +2055.7940
20 23 32  -110 46 38 +23 44 45  +2058.1129
20 23 33  -108 59 57 +25 37 40  +2058.0623
20 23 34  -107  9 24 +27 28 52  +2055.6387
20 23 35  -105 14 28 +29 18 12  +2050.8435
20 23 36  -103 14 41 +31  5 29  +2043.6804
20 23 37  -101  9 33 +32 50 33  +2034.1579
20 23 38  - 98 58 28 +34 33  8  +2022.2874
20 23 39  - 96 40 54 +36 12 60  +2008.0848
20 23 40  - 94 16 14 +37 49 49  +1991.5693
20 23 41  - 91 43 52 +39 23 16  +1972.7642
20 23 42  - 89  3 13 +40 52 56  +1951.6975
20 23 43  - 86 13 41 +42 18 23  +1928.4008
20 23 44  - 83 14 46 +43 39  7  +1902.9108
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                +31.2021   2078.1592    N
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20 23 47   - 73 17 29 +47  7 19   +1813.7129
20 23 48   - 69 37 42 +48  3 15   +1779.9090
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20 23 51   - 57 40 29 +50  0 51   +1667.1485
20 23 52   - 53 25 14 +50 21  1   +1626.0265
20 23 53   - 49  4 18 +50 30 41   +1583.2762
20 23 54   - 44 39 30 +50 29 20   +1538.9919
20 23 55   - 40 12 55 +50 16 37   +1493.2761
20 23 56   - 35 46 38 +49 52 20   +1446.2375
20 23 57   - 31 22 46 +49 16 25   +1397.9934
20 23 58   - 27  3 11 +48 28 56   +1348.6703
20 23 59   - 22 49 36 +47 30  5   +1298.4019
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21  0  1   - 14 45 15 +44 59 37   +1195.6109
21  0  2   - 10 56 10 +43 28 51   +1143.4011
21  0  3   -  7 16 20 +41 48 23   +1090.8728
21  0  4   -  3 45 48 +39 58 45   +1038.2048
21  0  5   -  0 24 21 +38  0 27   + 985.5855
21  0  6   +  2 48 22 +35 54  0   + 933.2114
21  0  7   +  5 52 52 +33 39 55   + 881.2879
21  0  8   +  8 49 46 +31 18 40   + 830.0269
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21  0 10   + 14 23 27 +26 16 33   + 730.3749
21  0 11   + 17  1 41 +23 36 35   + 682.4378
21  0 12   + 19 35 11 +20 51 15   + 636.0683
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21  0 15   + 26 54 43 +12  7 27   + 508.6933
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21  0 18   + 33 58 34 + 2 51 26   + 403.6608
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21  0 20   + 38 42 40 - 3 30 30   + 348.8121
21  0 21   + 41  7 37 - 6 43  9   + 326.4689
21  0 22   + 43 35 41 - 9 56  5   + 307.7057
21  0 23   + 46  7 50 -13  8 36   + 292.6389
21  0 24   + 48 45  1 -16 19 59   + 281.3600
21  0 25   + 51 28 22 -19 29 26   + 273.9353
21  0 26   + 54 18 60 -22 36  6   + 270.4048
21  0 27   + 57 18 11 -25 39  2   + 270.7805
21  0 28   + 60 27 14 -28 37 16   + 275.0485
21  0 29   + 63 47 28 -31 29 43   + 283.1673
21  0 30   + 67 20 19 -34 15 13   + 295.0703
21  0 31   + 71  7  9 -36 52 29   + 310.6670
21  0 32   + 75  9 11 -39 20 12   + 329.8436
21  0 33   + 79 27 28 -41 36 56   + 352.4671
21  0 34   + 84  2 38 -43 41 11   + 378.3845
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21  0 36   + 94  3  2 -47  6 16   + 439.4162
21  0 37   + 99 25 54 -48 24 20   + 474.1557
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21  0 57   -176 51 47 -25 38 51   +1430.1690
21  0 58   -174 45 55 -23 27 32   +1476.7677
21  0 59   -172 46 11 -21 15 43   +1522.1611
21  1  0   -170 51 55 -19  3 40   +1566.2417
21  1  1   -169  2 21 -16 51 37   +1608.9080
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21  1  3   -165 35  3 -12 28  8   +1689.6237
21  1  4   -163 56 15 -10 16 59   +1727.5014
21  1  5   -162 20  1 - 8  6 23   +1763.6208
21  1  6   -160 45 54 - 5 56 25   +1797.9096
21  1  7   -159 13 31 - 3 47 10   +1830.3026
21  1  8   -157 42 30 - 1 38 41   +1860.7368

21  1  8 46 -156 32 56 P   743    +1882.6885

21  1  9   -156 12 26 + 0 28 58   +1889.1567
21  1 10   -154 43  2 + 2 35 45   +1915.5100
21  1 11   -153 13 54 + 4 41 36   +1939.7490
21  1 12   -151 44 43 + 6 46 29   +1961.8318
21  1 13   -150 15 11 + 8 50 22   +1981.7188
21  1 14   -148 44 58 +10 53 11   +1999.3746
21  1 15   -147 13 42 +12 54 54   +2014.7699
21  1 16   -145 41  6 +14 55 28   +2027.8773
21  1 17   -144  6 47 +16 54 50   +2038.6735
21  1 18   -142 30 25 +18 52 55   +2047.1393
21  1 19   -140 51 37 +20 49 40   +2053.2585
21  1 20   -139 10  2 +22 44 58   +2057.0199
21  1 21   -137 25 12 +24 38 44   +2058.4142
21  1 22   -135 36 43 +26 30 51   +2057.4372
21  1 23   -133 44 10 +28 21 10   +2054.0863
21  1 24   -131 47  0 +30  9 33   +2048.3648
21  1 25   -129 44 46 +31 55 47   +2040.2776
21  1 26   -127 36 54 +33 39 41   +2029.8346
21  1 27   -125 22 50 +35 20 59   +2017.0491
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21  1 32   -112 19  7 +42 57 14   +1918.7188
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21  1 34   -106  2 10 +45 28 15   +1863.9018
21  1 35   -102 38 21 +46 34 50   +1833.3378
21  1 36   - 99  4 11 +47 34 37   +1800.7395
21  1 37   - 95 19 44 +48 26 53   +1766.1643
21  1 38   - 91 25 28 +49 10 55   +1729.6776
21  1 39   - 87 22  7 +49 46  3   +1691.3494
21  1 40   - 83 10 46 +50 11 34   +1651.2559
21  1 41   - 78 52 52 +50 26 53   +1609.4805
 BPOINT 49   21 1  41 24.393
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21  1 44   - 65 37 58 +50  6 46   +1474.9976
21  1 45   - 61 12 48 +49 37  6   +1427.4677
21  1 46   - 56 50 57 +48 55 50   +1378.7807
21  1 47   - 52 34 12 +48  3  6   +1329.0655
21  1 48   - 48 24  3 +46 59  9   +1278.4609
21  1 49   - 44 21 42 +45 44 21   +1227.1125
21  1 50   - 40 27 58 +44 19  7   +1175.1766
21  1 51   - 36 43 19 +42 43 55   +1122.8176
21  1 52   - 33  7 58 +40 59 17   +1070.2091
21  1 53   - 29 41 49 +39  5 43   +1017.5342
21  1 54   - 26 24 37 +37  3 45   + 964.9854
21  1 55   - 23 15 54 +34 53 52   + 912.7611
21  1 56   - 20 15  6 +32 36 35   + 861.0704
21  1 57   - 17 21 36 +30 12 22   + 810.1280
21  1 58   - 14 34 43 +27 41 40   + 760.1556
21  1 59   - 11 53 42 +25  4 57   + 711.3795
21  2  0   -  9 17 48 +22 22 38   + 664.0309
21  2  1   -  6 46 20 +19 35  9   + 618.3419
21  2  2   -  4 18 30 +16 42 56   + 574.5459
21  2  3   -  1 53 33 +13 46 26   + 532.8747
21  2  4   +  0 29 14 +10 46  4   + 493.5560
21  2  5   +  2 50 37 + 7 42 20   + 456.8117
21  2  6   +  5 11 22 + 4 35 42   + 422.8543
21  2  7   +  7 32 15 + 1 26 40   + 391.8851
21  2  8   +  9 54  3 - 1 44 12   + 364.0913
21  2  9   + 12 17 37 - 4 56 21   + 339.6443
21  2 10   + 14 43 48 - 8  9  8   + 318.6952
21  2 11   + 17 13 30 -11 21 56   + 301.3738
21  2 12   + 19 47 44 -14 33 60   + 287.7878
21  2 13   + 22 27 30 -17 44 36   + 278.0182
21  2 14   + 25 13 55 -20 52 53   + 272.1209
21  2 15   + 28  8 13 -23 58  1   + 270.1253
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21  2 16   + 31 11 36 -26 58 60   + 272.0328
21  2 17   + 34 25 29 -29 54 49   + 277.8188
21  2 18   + 37 51 13 -32 44 20   + 287.4315
21  2 19   + 41 30 10 -35 26 22   + 300.7950
21  2 20   + 45 23 43 -37 59 36   + 317.8098
21  2 21   + 49 32 57 -40 22 38   + 338.3535
21  2 22   + 53 58 51 -42 34  2   + 362.2855
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21  2 24   + 63 41 22 -46 15 52   + 419.6641
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21  2 30   + 97 21  9 -50 27 58   + 654.1118
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21  2 33   +113 30  5 -48 31 49   + 796.0031
21  2 34   +118 22  8 -47 23 49   + 845.5345
21  2 35   +122 56 12 -46  3 55   + 895.8400
21  2 36   +127 12  3 -44 33 46   + 946.7217
21  2 37   +131 10  7 -42 54 56   + 997.9877
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21  2 40   +141 27 35 -37 19 33   +1152.2805

21  2 41   +144 25 16 -35 18 26   +1203.3065
21  2 42   +147 11  4 -33 14 13   +1253.8648
21  2 43   +149 46 12 -31  7 29   +1303.8065
21  2 44   +152 11 47 -28 58 51   +1352.9908
21  2 45   +154 28 57 -26 48 48   +1401.2850
21  2 46   +156 38 35 -24 37 45   +1448.5623
21  2 47   +158 41 37 -22 26  3   +1494.7038
21  2 48   +160 38 49 -20 13 59   +1539.5975
21  2 49   +162 30 56 -18  1 48   +1583.1381
21  2 50   +164 18 34 -15 49 41   +1625.2266
21  2 51   +166  2 22 -13 37 48   +1665.7702
21  2 52   +167 42 49 -11 26 18   +1704.6825
21  2 53   +169 20 27 - 9 15 19   +1741.8826
21  2 54   +170 55 42 - 7  4 55   +1777.2960
21  2 55   +172 29  1 - 4 55 11   +1810.8524
21  2 56   +174  0 47 - 2 46 12   +1842.4881
21  2 57   +175 31 22 - 0 38  2   +1872.1421

21  2 57 17 +175 58  6 P   744    +1880.3731

21  2 58   +177  1  8 + 1 29 17   +1899.7608
21  2 59   +178 30 25 + 3 35 42   +1925.2936
21  3  0   +179 59 36 + 5 41  9   +1948.6947
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21  3  2   -177  1 13 + 9 49  2   +1988.9412
21  3  3   -175 30 29 +11 51 23   +2005.7166
21  3  4   -173 58 36 +13 52 36   +2020.2194
21  3  5   -172 25 12 +15 52 38   +2032.4247
21  3  6   -170 49 55 +17 51 25   +2042.3099
21  3  7   -169 12 25 +19 48 54   +2049.8583
21  3  8   -167 32 20 +21 44 58   +2055.0547
21  3  9   -165 49 14 +23 39 34   +2057.8885
21  3 10   -164  2 43 +25 32 33   +2058.3529
21  3 11   -162 12 21 +27 23 50   +2056.4442
21  3 12   -160 17 39 +29 13 14   +2052.1619
21  3 13   -158 18 10 +31  0 36   +2045.5102
21  3 14   -156 13 19 +32 45 43   +2036.4955
21  3 15   -154  2 36 +34 28 23   +2025.1299
21  3 16   -151 45 25 +36  8 20   +2011.4274
21  3 17   -149 21 14 +37 45 14   +1995.4060
21  3 18   -146 49 21 +39 18 47   +1977.0894
21  3 19   -144  9 16 +40 48 34   +1956.5039
21  3 20   -141 [illegible] 22 +42 24 10   [illegible]
21  3 21   -138 22  6 +43 35  4   +1908.6537
21  3 22   -135 14  2 +44 50 45   +1881.4652
21  3 23   -131 55 47 +46  0 37   +1852.1582
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21  3 25   -124 48 17 +48  0 18   +1787.3969
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21  3 27   -117  0 49 +49 28 38   +1714.8337
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21  3 28   -112 53 44 +49 59 17   +1675.7967
21  3 29   -108 39 19 +50 20  4   +1635.0267
21  3 30   -104 19  6 +50 30 23   +1592.6086
21  3 31   - 99 54 58 +50 29 45   +1548.6360
21  3 32   - 95 28 54 +50 17 49   +1503.2087
21  3 33   - 91  3  1 +49 54 22   +1456.4345
21  3 34   - 86 39 23 +49 19 19   +1408.4291
21  3 35   - 82 19 57 +48 32 44   +1359.3166
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21   3 41   - 59  1 19 +40  8 11   +1049.4384
21   3 42   - 55 39 31 +38 10 48   + 996.7871
21   3 43   - 52 26 26 +36  5 16   + 944.3390
21   3 44   - 49 21 36 +33 52  3   + 892.2987
21   3 45   - 46 24 23 +31 31 40   + 840.8756
21   3 46   - 43 34  8 +29  4 34   + 790.2883
21   3 47   - 40 50 10 +26 31 12   + 740.7599
21   3 48   - 38 11 42 +23 52  1   + 692.5195
21   3 49   - 35 38  2 +21  7 26   + 645.7985
21   3 50   - 33  8 25 +18 17 53   + 600.8296
21   3 51   - 30 42  4 +15 23 48   + 557.8461
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21   3 53   - 25 56 20 + 9 23 47   + 478.7517
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21   3 55   - 21 14 47 + 3 11  6   + 410.2863
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21   3 57   - 16 31 15 - 3 10 10   + 354.0622
21   3 58   - 14  6 41 - 6 22 36   + 330.9813
21   3 59   - 11 39  4 - 9 35 25   + 311.4521
21   4  0   -  9  7 32 -12 47 56   + 295.5958
21   4  1   -  6 30 58 -15 59 25   + 283.5094
21   4  2   -  3 48 25 -19  9  4   + 275.2637
21   4  3   -  0 58 37 -22 16  2   + 270.9053
21   4  4   +  1 59 35 -25 19 26   + 270.4510
21   4  5   +  5  7 30 -28 18 15   + 273.8932
21   4  6   +  8 26 31 -31 11 25   + 281.1952
21   4  7   + 11 58  2 -33 57 47   + 292.2967
21   4  8   + 15 43 25 -36 36  5   + 307.1112
21   4  9   + 19 43 55 -39  4 59   + 325.5304
21   4 10   + 24  0 39 -41 23  2   + 347.4250
21   4 11   + 28 34 14 -43 28 47   + 372.6464
21   4 12   + 33 24 52 -45 20 41   + 401.0298
21   4 13   + 38 31 54 -46 57 16   + 432.3964
21   4 14   + 43 53 47 -48 17 12   + 466.5558
21   4 15   + 49 27 56 -49 19 19   + 503.3080
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21   4 18   + 66 44 23 -50 32 47   + 627.0295
21   4 19   + 72 25 28 -50 19 55   + 672.0439
21   4 20   + 77 56 40 -49 49 38   + 718.5859
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21   4 22   + 88 16 13 -48  2 24   + 815.4012
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21   4 30   +118 14 23 -34 21 15   +1223.2652
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21   4 36   +132  8 14 -21 24  9   +1512.5309
21   4 37   +134  3  5 -19 11 53   +1556.9064
21   4 38   +135 53  5 -16 59 36   +1599.8889
 OOMERA 40   21 4  38 29.957
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21   4 45 49 +148 29 11 P   745    +1878.1423

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21   4 58   +167 32 33 +24 33 60   +2058.3947
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21   5  4   +179 33 25 +35 16 38   +2020.0395
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21   5  7   -173  2 46 +40  2 13   +1969.2682
21   5  8   -170 18 37 +41 30  1   +1947.7928
21   5  9   -167 25 23 +42 53 24   +1924.0921
21   5 10   -164 22 36 +44 11 50   +1898.2038
21   5 11   -161  9 50 +45 24 47   +1870.1694
21   5 12   -157 46 49 +46 31 37   +1840.0362
21   5 13   -154 13 27 +47 31 41   +1807.8558
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21   5 17   -138 23 25 +50 10 22   +1659.8995
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21   5 19   -129 44 11 +50 31 28   +1575.4134
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21   5 23   -112  6 39 +48 58 58   +1389.1269
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21   5 25   -103 39 47 +47  4  3   +1289.1699
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21   5 31   - 81 38 50 +37 14  2   + 975.9749
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21   5 32   - 78 29 48 +35  5  2   + 923.6618
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21   5 33   - 75 28 41 +32 48 36   + 871.8384
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21   5 37   - 64 30 30 +22 37 47   + 673.8125
21   5 38   - 61 58 52 +19 51  1   + 627.7588
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21   5 40   - 57  5 59 +14  3 36   + 541.4198
21   5 41   - 54 43 14 +11  3 50   + 501.5948
21   5 42   - 52 21 55 + 8  0 37   + 464.2996
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21   5 46   - 42 55 53 - 4 36 37   + 344.5246
21   5 47   - 40 30  7 - 7 49 14   + 322.8386
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21   5 53   - 24  6 45 -26 40 16   + 271.3894
21   5 54   - 20 54  0 -29 36 43   + 276.3661
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21   5 59   -  1 27 41 -42 21 14   + 357.0556
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21   6  3   + 18 54 13 -48 47 32   + 480.8256
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21   6  7   + 41 51 13 -50 29 10   + 644.6521
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21   6 14   + 75 53 22 -43  3  9   + 987.1447
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21   7 32   - 76 26 59 + 3 29 21   + 416.8199
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21  8 35   +112 31 12 +24 30  4   +2058.2750
21  8 36   +114 19 22 +26 22 18   +2058.2935
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21  8 39   +120 10  4 +31 47 35   +2044.1076
21  8 40   +122 17 23 +33 31 35   +2034.6450
21  8 41   +124 30 46 +35 13  0   +2022.8326
21  8 42   +126 50 52 +36 51 34   +2008.6853
21  8 43   +129 18 13 +38 26 56   +1992.2223
21  8 44   +131 53 25 +39 58 46   +1973.4672
21  8 45   +134 37  6 +41 26 40   +1952.4472
21  8 46   +137 29 47 +42 50  9   +1929.1942
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21  8 49   +147  6 26 +46 28 52   +1846.4248
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21  8 51   +154 21 54 +48 22  3   +1780.8749
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21 21 24  - 59 19 36 +40 36 24  +1976.8996
21 21 25  - 56 32 43 +42  2 15  +1956.2252
21 21 26  - 53 36 45 +43 23 29  +1933.3103
21 21 27  - 50 31 11 +44 39 35  +1908.1887
21 21 28  - 47 15 41 +45 50  0  +1880.9029
21 21 29  - 43 50  4 +46 54  7  +1851.4967
21 21 30  - 40 14 16 +47 51 15  +1820.0207
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21 21 42  + 10  5 50 +46 45  7  +1307.3063
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21 21 49  + 34 47 57 +34 36 34  + 942.1278
21 21 50  + 37 45 57 +32 19 43  + 890.0928
21 21 51  + 40 36 53 +29 56  6  + 838.6899
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21 21 53  + 46  0 25 +24 50 16  + 738.6594
21 21 54  + 48 34 26 +22  8 52  + 690.4839
21 21 55  + 51  4 14 +19 22 23  + 643.8439
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21 21 58  + 58 15 46 +10 36 28  + 515.4561
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21 22  7  + 80  8 18 -17 47 18  + 283.4351
21 22  8  + 82 54 38 -20 55 21  + 275.3747
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21 22 11  + 92  6 42 -29 57 11  + 274.5210
21 22 12  + 95 32 58 -32 46 53  + 281.9777
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21 22 15  +107 17 44 -40 25 56  + 326.7087
21 22 16  +111 45 11 -42 37 33  + 348.7105
21 22 17  +116 30  2 -44 35 56  + 374.0266
21 22 18  +121 31 55 -46 19 32  + 402.4926
21 22 19  +126 49 46 -47 46 53  + 433.9300
21 22 20  +132 21 22 -48 56 42  + 468.1490
21 22 21  +138  3 28 -49 47 59  + 504.9505
21 22 22  +143 51 54 -50 20  6  + 544.1284
21 22 23  +149 41 49 -50 32 57  + 585.4714
21 22 24  +155 28 11 -50 26 51  + 628.7656
21 22 25  +161  6 15 -50  2 39  + 673.7965
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21 22 31  -170 35 41 -42 39 45  + 968.6186
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21 22 33  -163 29 23 -38 57 18  +1071.4564
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21 22 40  -145  9 18 -24  6  6  +1421.6445
21 22 41  -143  6 26 -21 52 59  +1468.4709
21 22 42  -141  9 19 -19 39 34  +1514.1157
21 22 43  -139 17 17 -17 26  8  +1558.4690
21 22 44  -137 29 38 -15 12 51  +1601.4280
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21 22 47  -132 27 26 - 8 35 29  +1721.0034
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21 22 50 57 -126 18 34 P  755   +1854.6216

21 22 51  -126 15 17 + 0  4 38  +1855.7340
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21 22 55  -120 15 30 + 8 29 45  +1958.4564
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21 23  8  - 97 41 25 +33 24 19  +2042.2870
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21 23 11  - 90 43  4 +38 19 43  +2005.0773
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21 23 14  - 82 35 18 +42 43  7  +1947.0699
 FTSTEW 48  21 23 14 21.849
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21 23 15  - 79 34 42 +44  1 50  +1923.2364
 BPOINT 49  21 23 15 47.131
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21 23 16  - 76 24 22 +45 15 10  +1897.2132
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21 23 18  - 69 33 29 +47 23 13  +1838.7715
21 23 19  - 65 52 55 +48 16 39  +1806.4527
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21 23 25  - 41  0 33 +50 27 34  +1573.1998
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21 23 27  - 32 14  3 +49 46 32  +1482.4114
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21 23 36  +  2 33 24 +37 50 44  +1025.4333
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21 23 39  + 11 39 14 +31 12 10  + 868.7168
21 23 40  + 14 26 54 +28 45 36  + 817.6384
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21 23 59  + 62 52 37 -28 24  2  + 271.9783
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22  0  2  + 73 31 11 -36 41 59  + 299.0052
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22  0  5  + 86 27 16 -43 34 41  + 358.8262
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22  0 11  +119 [illegible]
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22  0 17  +151 19 29 -46 37 24  + 837.6830
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22  0 24  +176 31  6 -33 54 42  +1195.1760
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22  0 27  -175 57  1 -27 26 33  +1345.2059
22  0 28  -173 43 42 -25 14 17  +1393.6673
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22  0 37  -157 34 12 - 5 19 43  +1772.0509
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22  0 39 28 -153 47 17 P  756   +1851.9763

22  0 40  -152 59  8 + 1  8  6  +1867.9214
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22  0 51  -135 46 49 +23 25 30  +2054.8915
22  0 52  -134  0 40 +25 18 46  +2058.0899
22  0 53  -132 10 48 +27 10 15  +2058.9146
22  0 54  -130 16 45 +28 59 49  +2057.3612
22  0 55  -128 18  1 +30 47 19  +2053.4298
22  0 56  -126 14  8 +32 32 33  +2047.1225
22  0 57  -124  4 31 +34 15 18  +2038.4456
22  0 58  -121 48 40 +35 55 19  +2027.4107
22  0 59  -119 25 58 +37 32 19  +2014.0315
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22  1  2  -111 31  4 +42  1 42  +1960.0261
22  1  3  -108 35 19 +43 22 54  +1937.4898
22  1  4  -105 30  1 +44 38 58  +1912.7406
22  1  5  -102 14 50 +45 49 22  +1885.8182
22  1  6  - 98 49 34 +46 53 28  +1856.7664
22  1  7  - 95 14 11 +47 50 37  +1825.6359
22  1  8  - 91 28 54 +48 40 10  +1792.4808
22  1  9  - 87 26 16 +48 21 25  +1757.3605
22  1 10  - 83 31  4 +49 53 42  +1720.3426
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 BPOINT 49   22 1   11 31.465
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22  1 24  - 26 37 13 +38 52 47  +1056.2265
22  1 25  - 23 23 21 +36 51 24  +1003.5332
22  1 26  - 20 17 44 +34 42 20  + 951.0233
22  1 27  - 17 19 45 +32 26  3  + 898.8995
22  1 28  - 14 28 49 +30  2 59  + 847.3719
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22  1 32  -  4  1 36 +19 31 23  + 651.6548
22  1 33  -  1 35 20 +16 40 43  + 606.4688
22  1 34  +  0 48 10 +13 45 44  + 563.2446
22  1 35  +  3  9 40 +10 46 53  + 522.2125
22  1 36  +  5 29 49 + 7 44 36  + 483.5979
22  1 37  +  7 49 29 + 4 39 21  + 447.6193
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22  1 44  + 24 59 39 -17 35  0  + 285.2621
22  1 45  + 27 45 27 -20 43 10  + 276.5487
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22  1 47  + 33 42  5 -26 49 37  + 270.7680
22  1 48  + 36 55 34 -29 45 54  + 273.7152
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22  1 56  + 71 32 13 -47 42  7  + 428.4102
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22  2 20  +165 43 10 -17 28 43  +1550.9674
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22  2 24  +172 33 60 - 8 37 11  +1714.6024
22  2 25  +174  9 39 - 6 25 45  +1751.3894
22  2 26  +175 43 25 - 4 15  5  +1786.3702
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22  2 27 58 +178 44 10 P  757   +1849.7545
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22  2 33  -173 42 18 +10 33  3  +1975.5156
22  2 34  -172 10 42 +12 35 33  +1993.9804
22  2 35  -170 37 53 +14 36 50  +2010.1905
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22  2 38  -165 48 24 +20 32 41  +2045.0243
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22  2 48  -145 40 22 +38 19 37  +2007.8138
22  2 49  -143  6 23 +39 51 26  +1991.1437
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22  3  3  - 91 39 22 +50 13  6  +1536.1250
22  3  4  - 87 16 57 +49 47 11  +1490.2462
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 BPOINT 49   22 3   6  22.695
                  +45.4003  1806.4471     S
22  3  7  - 74 32 54 +47 21 56  +1345.2014
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22  3  9  - 66 37 22 +44 51 12  +1243.6255
22  3 10  - 62 52 25 +43 20 48  +1191.8069
22  3 11  - 59 16 29 +41 41  1  +1139.5160
22  3 12  - 55 49 34 +39 52 19  +1086.9243
22  3 13  - 52 31 28 +37 55 13  +1034.2120
22  3 14  - 49 21 49 +35 50 11  + 981.5690
22  3 15  - 46 20  8 +33 37 42  + 929.1936
22  3 16  - 43 25 47 +31 18 14  + 877.2914
22  3 17  - 40 38  8 +28 52 11  + 826.0767
22  3 18  - 37 56 31 +26 20  1  + 775.7684
22  3 19  - 35 20 11 +23 42  7  + 726.5931
22  3 20  - 32 48 27 +20 58 54  + 678.7790
22  3 21  - 30 20 34 +18 10 45  + 632.5590
22  3 22  - 27 55 49 +15 18  6  + 588.1665
22  3 23  - 25 33 28 +12 21 21  + 545.8322
22  3 24  - 23 12 47 + 9 20 56  + 505.7855
22  3 25  - 20 53  3 + 6 17 18  + 468.2491
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22   3 27   - 16 13 22 + 0  2 16   + 401.5550
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22   3 32   -  3 54 23 -15 54 26   + 292.1386
22   3 33   -  1 12 20 -19  3 47   + 281.1916
22   3 34   +  1 37  2 -22 10 39   + 274.0942
22   3 35   +  4 34 53 -25 14  6   + 270.8832
22   3 36   +  7 42 37 -28 13 10   + 271.5674
22   3 37   + 11  1 35 -31  6 44   + 276.1303
22   3 38   + 14 33 12 -33 53 38   + 284.5283
22   3 39   + 18 18 55 -36 32 36   + 296.6929
22   3 40   + 22 20  1 -39  2 15   + 312.5318
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22   3 42   + 31 12 31 -43 27 39   + 354.7556
22   3 43   + 36  4 48 -45 20 19   + 380.8536
22   3 44   + 41 13 54 -46 57 33   + 410.0576
22   3 45   + 46 38 18 -48 17 56   + 442.1856
22   3 46   + 52 15 19 -49 20 17   + 477.0464
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22   3 48   + 63 51 41 -50 27 50   + 554.1548
22   3 49   + 69 41 30 -50 32 40   + 595.9844
22   3 50   + 75 25 44 -50 18 46   + 639.7121
22   3 51   + 80 59 48 -49 47  9   + 685.1244
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 OOMERA 40   22 4  7  43.224
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22   4  8   +137 18  3 -18 36 34   +1525.1339
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22   4 16 28 +151 15 30 P   758    +1847.0789

22   4 17   +152  3 23 + 1  7 40   +1863.0826
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22   4 19   +155  3 27 + 5 21 44   +1917.6591
22   4 20   +156 33 25 + 7 27 10   +1941.7912
22   4 21   +158  3 50 + 9 31 30   +1963.7601
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22   4 28   +169 16 35 +23 26  0   +2054.2080
22   4 29   +171  2 45 +25 19 16   +2057.8027
22   4 30   +172 52 39 +27 10 45   +2059.0237
22   4 31   +174 46 42 +29  0 19   +2057.8664
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22   4 46   -142 33 11 +49 21  9   +1763.3221
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22   4 48   -134 20 15 +50 16 13   +1688.0460
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22   4 50   -125 43 53 +50 30 51   +1605.7323
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22   4 54   -108 19 58 +48 47 30   +1422.9208
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22   4 56   -100  2 20 +46 48 54   +1324.1892
22   4 57   - 96  4 36 +45 33 39   +1273.4429
22   4 58   - 92 15 21 +44  8 20   +1221.9713
22   4 59   - 88 34 59 +42 33 23   +1169.9311
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22   5  1   - 81 41 15 +38 56 34   +1064.8220
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22   5  2   - 78 27 30 +36 55 41   +1012.1129
 BPOINT 49   22 5  2  25.939
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22   5  4   - 72 24  3 +32 31 19   + 907.3519
22   5  5   - 69 33 10 +30  8 45   + 855.7111
22   5  6   - 66 48 40 +27 39 50   + 804.8489
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 PANTIG 41   22 5  7  55.364
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22   5  9   - 59  6 14 +19 39  7   + 659.1841
22   5 10   - 56 40  3 +16 48 54   + 613.7040
22   5 11   - 54 16 38 +13 54 22   + 570.1491
22   5 12   - 51 55 18 +10 55 56   + 528.7494
22   5 13   - 49 35 15 + 7 54  3   + 489.7323
22   5 14   - 47 15 48 + 4 49  9   + 453.3164
22   5 15   - 44 56  8 + 1 41 43   + 419.7132
22   5 16   - 42 35 30 - 1 27 42   + 389.1206
22   5 17   - 40 13  6 - 4 38 35   + 361.7229
22   5 18   - 37 48  3 - 7 50 20   + 337.6872
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22   5 24   - 21 26 50 -26 39 12   + 270.7369
22   5 25   - 18 13 58 -29 35 49   + 273.0518
22   5 26   - 14 49 12 -32 26 24   + 279.2288
22   5 27   - 11 11  4 -35  9 45   + 289.2150
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22   5 31   +  5 59 45 -44 22 49   + 365.3375
22   5 32   + 11  0 16 -46  8 24   + 392.7544
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22   6  4 58 +123 47  2 P   759    +1844.8331

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22   6 14   +137 36 36 +18 36 18   +2034.0724
22   6 15   +139 15 19 +20 33 34   +2043.7458
22   6 16   +140 56 45 +22 29 17   +2051.0744
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22   6 27   +164 39 37 +41 19 43   +1975.4772
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22   7 18   - 28 34 16 -41 14  6   + 328.6689
22   7 19   - 24  0  6 -43 21 25   + 350.9493
22   7 20   - 19  8 27 -45 14 55   + 376.5276
22   7 21   - 13 59 52 -46 53  4   + 405.2385
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22   8 10    + 123 53 48  +32 34 10   +2049.5961
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22   8 17    + 141 31 49  +43 23 27   +1945.1627
22   8 18    + 144 36 48  +44 39 20   +1921.1132
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22   8 25    + 1[illegible] 41 58  +50 16 10   +1694.2670
22   8 26    + 174 57 36  +50 28 48   +1654.2108
22   8 27    + 179 17 27  +50 30 52   +1612.4641
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22   8 31    - 163 20 24  +48 48  5   +1430.4856
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22   8 33    - 155  3 32  +46 49 59   +1332.0578
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22   8 58    -  85 13 45  -17 14 30   + 288.9900
22   8 59    -  82 28 50  -20 22 50   + 279.0593
22   9  0    -  79 36  7  -23 28 20   + 272.9888
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22   9  7    -  53 54 44  -42 16 23   + 337.7104
22   9  8    -  49 12  6  -44 17 22   + 361.4011
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22 21  4   - 23 29 59 +50  7  9   +1732.4785
22 21  5   - 19 18  9 +50 24 19   +1694.1561
22 21  6   - 15  1 28 +50 31 13   +1654.0585
22 21  7   - 10 41 41 +50 27 27   +1612.2691
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22 21 39   + 86 13 46 -21 33 26   + 279.2446
22 21 40   + 89  9 41 -24 37 31   + 273.2264
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22 21 45   +106 42 57 -38 33 46   + 301.0431
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22 22  4   -159 27 58 -38 12 22   +1046.2927
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22 22  7   -150 42 14 -31 55 32   +1200.1618
22 22  8   -148  9 30 -29 44 35   +1250.7648
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22 22 11   -141 22 49 -23  3 51   +1398.4265
22 22 12   -139 21 12 -20 48 59   +1445.8154
22 22 13   -137 25  7 -18 33 59   +1492.0816
22 22 14   -135 33 56 -16 19  5   +1537.1117
22 22 15   -133 46 57 -14  4 28   +1580.7992
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22 22 28   -113 25 52 +13 50 47   +1988.8666
22 22 29   -111 51 41 +15 51 43   +2005.8034
22 22 30   -110 15 45 +17 51 14   +2020.4616
22 22 31   -108 37 41 +19 49 18   +2032.8148
22 22 32   -106 57  8 +21 45 49   +2042.8406
22 22 33   -105 13 40 +23 40 42   +2050.5208
22 22 34   -103 26 56 +25 33 51   +2055.8399
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22 22 36   - 99 41 49 +29 14 26   +2059.3559
22 22 37   - 97 42 31 +31  1 33   +2057.5409
22 22 38   - 95 38  4 +32 46 20   +2053.3424
22 22 39   - 93 27 56 +34 28 33   +2046.7631
22 22 40   - 91 11 34 +36  7 57   +2037.8108
22 22 41   - 88 48 26 +37 44 15   +2026.4957
22 22 42   - 86 17 55 +39 17  8   +2012.8327
22 22 43   - 83 39 31 +40 46 14   +1996.8406
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 HAVANA 47  22 22 43 24.570
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22 22 45   - 77 56 50 +43 31 22   +1957.9630
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22 22 48   - 68 11 58 +46 58 52   +1882.8809
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22 22 50   - 60 53  5 +48 43 32   +1822.1214
22 22 51   - 56 59 45 +49 23 51   +1788.6818
22 22 52   - 52 58 10 +49 55 16   +1753.2822
22 22 53   - 48 49 30 +50 17 14   +1715.9894
22 22 54   - 44 35 10 +50 29 10   +1676.8778
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22 22 56   - 35 56 28 +50 21 17   +1593.5226
22 22 57   - 31 35 57 +50  0 54   +1549.4598
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22 22 59   - 23  2 15 +48 46 50   +1457.0706
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22 23  8   +  9 38 53 +34 56  5   + 996.6990
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22 23 10   + 15 25 25 +30 21 14   + 892.1375
22 23 11   + 18  8 56 +27 54  8   + 840.6969
22 23 12   + 20 46 51 +25 21  9   + 790.1046
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22 23 16   + 30 36 40 +14 17 53   + 600.7653
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22 23 20   + 39 53 43 + 2 11 30   + 443.3268
22 23 21   + 42 13 21 - 0 56 41   + 410.6229
22 23 22   + 44 34 42 - 4  6 30   + 380.9852
22 23 23   + 46 58 36 - 7 17 23   + 354.5925
22 23 24   + 49 25 56 -10 28 42   + 331.6053
22 23 25   + 51 57 43 -13 39 47   + 312.1641
22 23 26   + 54 34 54 -16 49 54   + 296.3869
22 23 27   + 57 18 38 -19 58 17   + 284.3679
22 23 28   + 60 10  5 -23  4  2   + 276.1764
22 23 29   + 63 10 34 -26  6 14   + 271.8562
22 23 30   + 66 21 25 -29  3 51   + 271.4233
22 23 31   + 69 44  4 -31 55 46   + 274.8681
22 23 32   + 73 19 60 -34 40 46   + 282.1543
22 23 33   + 77 10 35 -37 17 30   + 293.2206
22 23 34   + 81 17 13 -39 44 33   + 307.9823
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22 23 44   +135  9 43 -50  9 31   + 626.7649
22 23 45   +140 42 13 -49 31 32   + 671.6579
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22 23 51   +167 54 42 -41  6 31   + 965.9687
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22 23 53   +174 39 47 -37 11 21   +1068.7632
22 23 54   +177 41  4 -35  7  4   +1120.2004
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22 23 56   -176 52  9 -30 49 28   +1222.3132
22 23 57   -174 24  7 -28 37 31   +1272.6747
22 23 58   -172  4 49 -26 24 11   +1322.3757
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23  0  1   -165 49 38 -19 40  0   +1466.1635
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23  0  5   -158 40  5 -10 41 32   +1641.0260
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23  0  7   -155 24 41 - 6 15 38   +1719.3880
23  0  8   -153 50  8 - 4  3 54   +1755.9967
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23  0 10   -150 45 16 + 0 16 45   +1823.7000
23  0 11   -149 14 13 + 2 25 33   +1854.6630
23  0 12   -147 43 35 + 4 33 17   +1883.6190
23  0 13   -146 13  3 + 6 39 52   +1910.5154
23  0 14   -144 42 17 + 8 45 17   +1935.3027
23  0 15   -143 10 56 +10 49 29   +1957.9366
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23  0 22   -131 46 33 +24 40  4   +2053.1791
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23  0 35   -100 39 44 +45 23 17   +1924.4689
23  0 36   - 97 19 49 +46 29 24   +1898.4681
23  0 37   - 93 50  2 +47 28 55   +1870.3129
23  0 38   - 90 10 30 +48 21  9   +1840.0513
23  0 39   - 86 21 36 +49  5 29   +1807.7362
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 BPOINT 49   23 0   41 17.403
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23  0 44   - 65 31 25 +50 27 11   +1617.5993
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23  0 48   - 48 22 15 +48 20 51   +1436.1174
23  0 49   - 44 15 57 +47 21 55   +1387.5114
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23  0 52   - 32 43  4 +43 23 54   +1235.9612
23  0 53   - 29  9 19 +41 45 33   +1184.0225
23  0 54   - 25 44 24 +39 58 28   +1131.6400
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23  0 58   - 13 26 52 +31 32  9   + 921.2772
23  0 59   - 10 40 27 +29  8 17   + 869.4557
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23  1  1   -  5 24 43 +24  2 39   + 768.2120
23  1  2   -  2 54  1 +21 21 41   + 719.2378
23  1  3   -  0 27  7 +18 35 45   + 671.6662
23  1  4   +  1 56 39 +15 45 17   + 625.7307
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23  1  9   + 13 33 52 + 0 38 47   + 428.6187
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23  1 53   +173  2 42 -11 46 20   +1617.8725
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23  1 55   +176 20 42 - 7 19 31   +1698.0797
23  1 56   +177 56 14 - 5  7 17   +1735.6789
23  1 57   +179 29 60 - 2 55 55   +1771.5041
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23  1 58 21 -178 25 27 P  770     +1816.7342

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23  2 11   -158 18 13 +25 39 10   +2055.3941
23  2 12   -156 27 32 +27 30 22   +2058.6362
23  2 13   -154 32 41 +29 19 34   +2059.4985
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23  2 15   -150 28 28 +32 51 14   +2054.0708
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23  2 19   -141  7 19 +39 21 18   +2014.7119
23  2 20   -138 28 38 +40 50  9   +1999.0000
23  2 21   -135 41 31 +42 14 47   +1980.9776
23  2 22   -132 45 26 +43 34 45   +1960.6709
23  2 23   -129 40  0 +44 49 32   +1938.1106
23  2 24   -126 24 54 +45 58 34   +1913.3319
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23  2 30   -103 37 29 +50 17 48   +1720.6551
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23  2 32   - 95  5 23 +50 30 29   +1641.0980
23  2 33   - 90 45 24 +50 20 49   +1598.7805
23  2 34   - 86 25 21 +50  0 10   +1554.8923
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 BPOINT 49   23 2   36 11.063
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23  2 39   - 65 46  8 +45 33 10   +1315.6809
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23  2 41   - 58 21 39 +42 34 58   +1213.1355
23  2 42   - 54 52 36 +40 52 13   +1160.9771
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23  2 44   - 48 20 25 +37  1 46   +1055.7343
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23  2 48   - 36 47 39 +27 53 39   + 846.8216
23  2 49   - 34 10  0 +25 20 55   + 796.1168
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23  2 55   - 19 41 52 + 8 22 16   + 521.9244
23  2 56   - 17 23 28 + 5 19  8   + 483.3813
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23  3  2   -  3  1 47 -13 37  7   + 3[illegible]
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23  3  4   +  2 18 48 -19 55 30   + 285.6869
23  3  5   +  5 10  6 -23  1 15   + 277.0369
23  3  6   +  8 10 24 -26  3 30   + 272.2523
23  3  7   + 11 21  5 -29  1 12   + 271.3534
23  3  8   + 14 43 33 -31 53 13   + 274.3327
23  3  9   + 18 19 19 -34 38 22   + 281.1579
23  3 10   + 22  9 47 -37 15 17   + 291.7705
23  3 11   + 26 16 17 -39 42 33   + 306.0881
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23  3 14   + 40 20 15 -45 50 49   + 370.1205
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 OOMERA 40   23 3  36 44.585
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23   3 37   +137 17 54 -21 51 40   +1413.4786
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 FTSTEW 48   23 4  30 44.206
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23   6  1   +178 48 32 +46  1 47   +1916.3543
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23  7 58   -175  4 51 +50 26 25   +1627.2832
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23  8  0   -166 26 43 +49 43 54   +1540.0206
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23  8 43   - 22 40 36 -49 57 27   + 474.4323
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23 21 14  +103 41 27 -34 43 37   + 277.7211
23 21 15  +107 32 48 -37 20 30   + 286.4555
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24 20 49  +127 48 58 -45 30 51  + 338.8551
```

```
24 20 50  +133  4 36 -47  7  5  + 362.2333
24 20 51  +138 36 13 -48 25 57  + 388.8034
24 20 52  +144 20 57 -49 26 10  + 418.3983
24 20 53  +150 14 44 -50  6 46  + 450.8403
24 20 54  +156 12 44 -50 27 18  + 485.9402
24 20 55  +162  9 32 -50 27 50  + 523.5012
24 20 56  +167 59 50 -50  8 60  + 563.3205
24 20 57  +173 38 56 -49 31 54  + 605.1909
24 20 58  +179  3  4 -48 38  3  + 648.9034
24 20 59  -175 50 17 -47 29 10  + 694.2480
24 21  0  -171  2 37 -46  7  6  + 741.0147
24 21  1  -166 34 18 -44 33 42  + 788.9968
24 21  2  -162 25  2 -42 50 40  + 837.9890
24 21  3  -158 33 57 -40 59 37  + 887.7916
24 21  4  -154 59 49 -39  1 59  + 938.2087
24 21  5  -151 41 15 -36 58 60  + 989.0502
24 21  6  -148 36 48 -34 51 45  +1040.1327
24 21  7  -145 45  4 -32 41  9  +1091.2779
24 21  8  -143  4 41 -30 27 59  +1142.3143
24 21  9  -140 34 23 -28 12 54  +1193.0799
24 21 10  -138 13  1 -25 56 29  +1243.4162
24 21 11  -135 59 32 -23 39 10  +1293.1743
24 21 12  -133 52 58 -21 21 21  +1342.2117
24 21 13  -131 52 29 -19  3 22  +1390.3933
24 21 14  -129 57 18 -16 45 29  +1437.5908
24 21 15  -128  6 42 -14 27 54  +1483.6833
24 21 16  -126 20  5 -12 10 50  +1528.5560
24 21 17  -124 36 50 - 9 54 25  +1572.1014
24 21 18  -122 56 30 - 7 38 48  +1614.2182
24 21 19  -121 18 29 - 5 24  6  +1654.8115
24 21 20  -119 42 27 - 3 10 22  +1693.7920
24 21 21  -118  7 55 - 0 57 43  +1731.0774

24 21 21 26 -117 27  1 P  794   +1746.6242

24 21 22  -116 34 30 + 1 13 48  +1766.5893
24 21 23  -115  1 51 + 3 24  7  +1800.2571
24 21 24  -113 29 33 + 5 33 11  +1832.0129
24 21 25  -111 57 17 + 7 40 57  +1861.7957
24 21 26  -110 24 42 + 9 47 22  +1889.5491
24 21 27  -108 51 29 +11 52 23  +1915.2206
24 21 28  -107 17 15 +13 55 58  +1938.7637
24 21 29  -105 41 40 +15 58  2  +1960.1344
24 21 30  -104  4 23 +17 58 32  +1979.2952
24 21 31  -102 25  4 +19 57 25  +1996.2104
24 21 32  -100 43 17 +21 54 34  +2010.8496
24 21 33  - 98 58 42 +23 49 56  +2023.1876
24 21 34  - 97 10 53 +25 43 24  +2033.2003
24 21 35  - 95 19 24 +27 34 50  +2040.8694
24 21 36  - 93 23 50 +29 24  7  +2046.1796
24 21 37  - 91 23 41 +31 11  4  +2049.1195
24 21 38  - 89 18 32 +32 55 31  +2049.6815
24 21 39  - 87  7 46 +34 37 15  +2047.8617
24 21 40  - 84 50 58 +36 16  2  +2043.6591
 HAVANA 47  24 21 40 57.998
             +50.9612  2784.3043    N
24 21 41  - 82 27 32 +37 51 35  +2037.0781
 FTSTEW 48  24 21 41 23.047
             +25.5307  2194.7268    N
24 21 42  - 79 56 57 +39 23 36  +2028.1247
24 21 43  - 77 18 43 +40 51 43  +2016.8099
 BPOINT 49  24 21 43  4.725
             +10.5022  2041.7496    N
```

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24 21 45  - 71 37 12 +43 34 39  +1987.1615
24 21 46  - 68 33  8 +44 48 34  +1968.8692
24 21 47  - 65 19 46 +45 56 45  +1948.3000
24 21 48  - 61 56 59 +46 58 40  +1925.4851
24 21 49  - 58 24 51 +47 53 44  +1900.4613
24 21 50  - 54 43 36 +48 41 19  +1873.2684
24 21 51  - 50 53 48 +49 20 52  +1843.9534
24 21 52  - 46 56 15 +49 51 45  +1812.5673
24 21 53  - 42 52  3 +50 13 27  +1779.1663
24 21 54  - 38 42 36 +50 25 27  +1743.8129
24 21 55  - 34 29 26 +50 27 22  +1706.5751
24 21 56  - 30 14 24 +50 18 54  +1667.5279
24 21 57  - 25 59 15 +49 59 50  +1626.7516
24 21 58  - 21 45 52 +49 30  6  +1584.3340
24 21 59  - 17 35 57 +48 49 45  +1540.3708
24 22  0  - 13 30 60 +47 58 56  +1494.9636
24 22  1  -  9 32 19 +46 57 53  +1448.2233
24 22  2  -  5 40 49 +45 46 57  +1400.2679
24 22  3  -  1 57 15 +44 26 29  +1351.2231
24 22  4  +  1 37 58 +42 56 54  +1301.2248
24 22  5  +  5  4 43 +41 18 39  +1250.4158
24 22  6  +  8 23  1 +39 32 10  +1198.9495
24 22  7  + 11 33  9 +37 37 53  +1146.9873
24 22  8  + 14 35 27 +35 36 13  +1094.6990
24 22  9  + 17 30 25 +33 27 35  +1042.2645
24 22 10  + 20 18 35 +31 12 22  + 989.8718
24 22 11  + 23  0 36 +28 50 58  + 937.7164
24 22 12  + 25 37  2 +26 23 43  + 886.0030
24 22 13  + 28  8 36 +23 50 58  + 834.9423
24 22 14  + 30 35 56 +21 13  4  + 784.7520
24 22 15  + 32 59 44 +18 30 21  + 735.6547
24 22 16  + 35 20 38 +15 43  9  + 687.8767
24 22 17  + 37 39 20 +12 51 50  + 641.6471
24 22 18  + 39 56 33 + 9 56 44  + 597.1955
24 22 19  + 42 12 54 + 6 58 15  + 554.7505
24 22 20  + 44 29 10 + 3 56 47  + 514.5373
24 22 21  + 46 46  0 + 0 52 46  + 476.7753
24 22 22  + 49  4 15 - 2 13 21  + 441.6761
24 22 23  + 51 24 41 - 5 21  3  + 409.4414
24 22 24  + 53 48  6 - 8 29 47  + 380.2587
24 22 25  + 56 15 28 -11 38 56  + 354.3009
24 22 26  + 58 47 43 -14 47 51  + 331.7237
24 22 27  + 61 25 58 -17 55 49  + 312.6614
24 22 28  + 64 11 17 -21  2  1  + 297.2276
24 22 29  + 67  4 57 -24  5 36  + 285.5124
24 22 30  + 70  8 17 -27  5 34  + 277.5813
24 22 31  + 73 22 42 -30  0 52  + 273.4742
24 22 32  + 76 49 41 -32 50 21  + 273.2052
24 22 33  + 80 30 46 -35 32 42  + 276.7631
24 22 34  + 84 27 22 -38  6 32  + 284.1110
24 22 35  + 88 40 49 -40 30 20  + 295.1883
24 22 36  + 93 12  9 -42 42 27  + 309.9107
24 22 37  + 98  1 47 -44 41 14  + 328.1721
24 22 38  +103  9 35 -46 24 57  + 349.8477
24 22 39  +108 34 17 -47 52  1  + 374.7944
24 22 40  +114 13 35 -49  0 58  + 402.8528
24 22 41  +120  3 60 -49 50 40  + 433.8506
24 22 42  +126  0 56 -50 20 25  + 467.6050
24 22 43  +131 59 11 -50 30  3  + 503.9218
24 22 44  +137 53 18 -50 19 56  + 542.6023
24 22 45  +143 38 19 -49 50 58  + 583.4411
24 22 46  +149  9 54 -49  4 30  + 626.2300
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24 22 47  +154 24 59 -48  2 10  + 670.7586
24 22 48  +159 21 37 -46 45 47  + 716.8176
24 22 49  +163 58 56 -45 17 13  + 764.1983
24 22 50  +168 16 57 -43 38 14  + 812.6947
24 22 51  +172 16 20 -41 50 31  + 862.1043
24 22 52  +175 58  8 -39 55 35  + 912.2288
24 22 53  +179 23 43 -37 54 45  + 962.8751
24 22 54  -177 25 30 -35 49 10  +1013.8566
24 22 55  -174 28  4 -33 39 50  +1064.9918
24 22 56  -171 42 36 -31 27 36  +1116.1061
24 22 57  -169  7 49 -29 13 10  +1167.0326
24 22 58  -166 42 27 -26 57  9  +1217.6104
24 22 59  -164 25 28 -24 40  3  +1267.6863
24 23  0  -162 15 49 -22 22 17  +1317.1142
24 23  1  -160 12 37 -20  4 13  +1365.7549
24 23  2  -158 15  5 -17 46  7  +1413.4768
24 23  3  -156 22 25 -15 28 15  +1460.1552
24 23  4  -154 34  2 -13 10 49  +1505.6722
24 23  5  -152 49 16 -10 53 59  +1549.9164
24 23  6  -151  7 37 - 8 37 53  +1592.7829
24 23  7  -149 28 33 - 6 22 40  +1634.1738
24 23  8  -147 51 38 - 4  8 23  +1673.9976
24 23  9  -146 16 25 - 1 55 10  +1712.1674

24 23  9 52 -144 54 34 P  795   +1743.9085

24 23 10  -144 42 29 + 0 16 57  +1748.6035
24 23 11  -143  9 27 + 2 27 53  +1783.2304
24 23 12  -141 36 58 + 4 37 35  +1815.9796
24 23 13  -140  4 40 + 6 46  0  +1846.7864
24 23 14  -138 32 12 + 8 53  5  +1875.5916
24 23 15  -136 59 15 +10 58 47  +1902.3413
24 23 16  -135 25 25 +13  3  3  +1926.9851
24 23 17  -133 50 25 +15  5 50  +1949.4785
24 23 18  -132 13 52 +17  7  4  +1969.7801
24 23 19  -130 35 25 +19  6 41  +1987.8535
24 23 20  -128 54 42 +21  4 38  +2003.6662
24 23 21  -127 11 19 +23  0 49  +2017.1895
24 23 22  -125 24 55 +24 55  8  +2028.3987
24 23 23  -123 35  1 +26 47 28  +2037.2730
24 23 24  -121 41 15 +28 37 42  +2043.7952
24 23 25  -119 43  7 +30 25 40  +2047.9518
24 23 26  -117 40  9 +32 11 13  +2049.7339
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                + 0.7039  2049.9336    N
24 23 27  -115 31 50 +33 54  9  +2049.1351
24 23 28  -113 17 42 +35 34 13  +2046.1531
24 23 29  -110 57 10 +37 11 10  +2040.7895
24 23 30  -108 29 44 +38 44 43  +2033.0492
24 23 31  -105 54 52 +40 14 32  +2022.9413
24 23 32  -103 12  2 +41 40 13  +2010.4791
24 23 33  -100 20 46 +43  1 23  +1995.6783
24 23 34  - 97 20 39 +44 17 34  +1978.5611
24 23 35  - 94 11 23 +45 28 14  +1959.1518
24 23 36  - 90 52 44 +46 32 53  +1937.4799
24 23 37  - 87 24 42 +47 30 56  +1913.5784
24 23 38  - 83 47 26 +48 21 48  +1887.4874
 FTSTEW 48  24 23 38 36.494
                +57.5130  2825.8606    N
24 23 39  - 80  1 21 +49  4 51  +1859.2493
 BPOINT 49  24 23 39 44.925
                +43.1623  2307.7447    N
24 23 40  - 76  7 12 +49 39 31  +1828.9132
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24 23 43  - 63 47  5 +50 27 48  +1725.8790
24 23 44  - 59 32 50 +50 23 51  +1687.7436
24 23 45  - 55 17 42 +50  9 25  +1647.8372
24 23 46  - 51  3 33 +49 44 21  +1606.2433
24 23 47  - 46 52  9 +49  8 39  +1563.0542
24 23 48  - 42 45  3 +48 22 25  +1518.3684
24 23 49  - 38 43 42 +47 25 52  +1472.2920
24 23 50  - 34 49 10 +46 19 17  +1424.9387
24 23 51  - 31  2 17 +45  3  1  +1376.4309
24 23 52  - 27 23 32 +43 37 28  +1326.8994
24 23 53  - 23 53 16 +42  3  5  +1276.4834
24 23 54  - 20 31 26 +40 20 16  +1225.3308
24 23 55  - 17 17 55 +38 29 29  +1173.5991
24 23 56  - 14 12 23 +36 31  9  +1121.4534
24 23 57  - 11 14 23 +34 25 41  +1069.0692
24 23 58  -  8 23 26 +32 13 29  +1016.6297
24 23 59  -  5 38 55 +29 54 55  + 964.3272
25  0  0  -  3  0 14 +27 30 22  + 912.3618
25  0  1  -  0 26 41 +25  0 10  + 860.9408
25  0  2  +  2  2 19 +22 24 41  + 810.2792
25  0  3  +  4 27 30 +19 44 13  + 760.5965
25  0  4  +  6 49 30 +16 59  8  + 712.1173
25  0  5  +  9  8 59 +14  9 46  + 665.0702
25  0  6  + 11 26 40 +11 16 28  + 619.6839
25  0  7  + 13 43 13 + 8 19 35  + 576.1880
25  0  8  + 15 59 20 + 5 19 33  + 534.8098
25  0  9  + 18 15 44 + 2 16 44  + 495.7718
25  0 10  + 20 33  9 - 0 48 23  + 459.2896
25  0 11  + 22 52 24 - 3 55 19  + 425.5704
25  0 12  + 25 14 17 - 7  3 34  + 394.8089
25  0 13  + 27 39 39 -10 12 31  + 367.1862
25  0 14  + 30  9 29 -13 21 34  + 342.8659
25  0 15  + 32 44 48 -16 29 60  + 321.9947
25  0 16  + 35 26 40 -19 37  3  + 304.6963
25  0 17  + 38 16 20 -22 41 54  + 291.0725
25  0 18  + 41 15  1 -25 43 38  + 281.2022
25  0 19  + 44 24 11 -28 41 12  + 275.1376
25  0 20  + 47 45 12 -31 33 30  + 272.9067
25  0 21  + 51 19 38 -34 19 17  + 274.5106
25  0 22  + 55  8 59 -36 57 13  + 279.9255
25  0 23  + 59 14 36 -39 25 50  + 289.1034
25  0 24  + 63 37 43 -41 43 32  + 301.9709
25  0 25  + 68 19  2 -43 48 40  + 318.4345
25  0 26  + 73 18 44 -45 39 31  + 338.3775
25  0 27  + 78 36  3 -47 14 25  + 361.6663
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25  0 29  + 89 55 14 -49 30 27  + 417.6623
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25  0 31  +101 48 34 -50 28  9  + 485.0523
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25  0 33  +113 35 26 -50  6 22  + 562.3010
25  0 34  +119 13 49 -49 27 36  + 604.1142
25  0 35  +124 36 57 -48 32 11  + 647.7757
25  0 36  +129 42 19 -47 21 52  + 693.0749
25  0 37  +134 28 39 -45 58 29  + 739.8026
25  0 38  +138 55 31 -44 23 54  + 787.7515
25  0 39  +143  3 23 -42 39 49  + 836.7172
25  0 40  +146 53  9 -40 47 50  + 886.4992
25  0 41  +150 26  1 -38 49 22  + 936.9016
25  0 42  +153 43 26 -36 45 40  + 987.7348
25  0 43  +156 46 47 -34 37 46  +1038.8135
```

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25  0 44  +159 37 35 -32 26 36  +1089.9609
25  0 45  +162 17  8 -30 12 56  +1141.0055
25  0 46  +164 46 40 -27 57 26  +1191.7830
25  0 47  +167  7 23 -25 40 37  +1242.1364
25  0 48  +169 20 17 -23 22 58  +1291.9162
25  0 49  +171 26 20 -21  4 52  +1340.9796
25  0 50  +173 26 24 -18 46 37  +1389.1911
25  0 51  +175 21 13 -16 28 30  +1436.4218
25  0 52  +177 11 31 -14 10 43  +1482.5505
25  0 53  +178 57 54 -11 53 29  +1527.4626
25  0 54  -179 19  4 - 9 36 56  +1571.0506
25  0 55  -177 38 50 - 7 21 12  +1613.2115
25  0 56  -176  0 58 - 5  6 24  +1653.8523
25  0 57  -174 24 57 - 2 52 36  +1692.8821
25  0 58  -172 50 26 - 0 39 54  +1730.2180

25  0 58 18 -172 22 10 P  796   +1740.9745

25  0 59  -171 17  0 + 1 31 38  +1765.7828
25  1  0  -169 44 15 + 3 41 58  +1799.5039
25  1  1  -168 11 52 + 5 51  1  +1831.3147
25  1  2  -166 39 26 + 7 58 46  +1861.1538
25  1  3  -165  6 41 +10  5  8  +1888.9636
25  1  4  -163 33 12 +12 10  5  +1914.6928
25  1  5  -161 58 41 +14 13 34  +1938.2932
25  1  6  -160 22 47 +16 15 31  +1959.7222
25  1  7  -158 45  9 +18 15 53  +1978.9406
25  1  8  -157  5 25 +20 14 36  +1995.9137
25  1  9  -155 23 10 +22 11 35  +2010.6116
25  1 10  -153 38  5 +24  6 44  +2023.0069
25  1 11  -151 49 41 +25 59 57  +2033.0767
25  1 12  -149 57 36 +27 51  6  +2040.8027
25  1 13  -148  1 21 +29 40  4  +2046.1692
25  1 14  -146  0 29 +31 26 41  +2049.1647
25  1 15  -143 54 30 +33 10 45  +2049.7813
25  1 16  -141 42 55 +34 52  4  +2048.0156
25  1 17  -139 25 11 +36 30 22  +2043.8658
25  1 18  -137  0 46 +38  5 23  +2037.3363
25  1 19  -134 29 10 +39 36 49  +2028.4335
25  1 20  -131 49 48 +41  4 17  +2017.1687
25  1 21  -129  2 14 +42 27 25  +2003.5567
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 NELCAL 42  25 1  24 49.196
                +50.9061  2650.0734    N
25  1 25  -116 22 14 +47  6 59  +1926.0718
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25  1 27  -109  6 45 +48 47 24  +1873.9360
25  1 28  -105 16  4 +49 25 43  +1844.6585
25  1 29  -101 17 51 +49 55 19  +1813.3089
25  1 30  - 97 13 10 +50 15 40  +1779.9424
25  1 31  - 93  3 27 +50 26 18  +1744.6215
25  1 32  - 88 50 19 +50 26 50  +1707.4145
25  1 33  - 84 35 32 +50 16 57  +1668.3959
25  1 34  - 80 20 58 +49 56 30  +1627.6463
 BPOINT 49  25 1  34 46.166
                +46.7356  2109.1732    S
25  1 35  - 76  8 22 +49 25 26  +1585.2542
25  1 36  - 71 59 26 +48 43 47  +1541.3136
25  1 37  - 67 55 38 +47 51 44  +1495.9272
25  1 38  - 63 58 14 +46 49 32  +1449.2056
25  1 39  - 60  8  9 +45 37 31  +1401.2660
```

```
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25  1 41  - 52 52 12 +42 45 34  +1302.2483
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25  1 43  - 46  9 55 +39 19 15  +1199.9889
25  1 44  - 43  1  6 +37 24 18  +1148.0302
25  1 45  - 40  0  0 +35 22  3  +1095.7431
25  1 46  - 37  6 11 +33 12 54  +1043.3071
25  1 47  - 34 19  2 +30 57 15  + 990.9095
25  1 48  - 31 37 59 +28 35 26  + 938.7466
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25  1 50  - 26 31 35 +23 34 49  + 835.9477
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25  1 52  - 21 41 42 +18 13 45  + 736.6218
25  1 53  - 19 21 16 +15 26 23  + 688.8199
25  1 54  - 17  2 59 +12 34 56  + 642.5618
25  1 55  - 14 46  7 + 9 39 45  + 598.0786
25  1 56  - 12 29 60 + 6 41 13  + 555.5979
25  1 57  - 10 13 55 + 3 39 43  + 515.3452
25  1 58  -  7 57  9 + 0 35 42  + 477.5396
25  1 59  -  5 38 55 - 2 30 22  + 442.3935
25  2  0  -  3 18 25 - 5 37 60  + 410.1070
25  2  1  -  0 54 48 - 8 46 37  + 380.8692
25  2  2  +  1 32 48 -11 55 37  + 354.8527
25  2  3  +  4  5 27 -15  4 21  + 332.2126
25  2  4  +  6 44  8 -18 12  5  + 313.0843
25  2  5  +  9 30  3 -21 18  1  + 297.5817
25  2  6  + 12 24 25 -24 21 15  + 285.7945
25  2  7  + 15 28 37 -27 20 49  + 277.7891
25  2  8  + 18 44  1 -30 15 39  + 273.6057
25  2  9  + 22 12 10 -33  4 34  + 273.2585
25  2 10  + 25 54 32 -35 46 17  + 276.7374
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25  2 12  + 34  7 41 -40 42 15  + 295.0034
25  2 13  + 38 40 42 -42 53 21  + 309.6467
25  2 14  + 43 32 10 -44 50 57  + 327.8303
25  2 15  + 48 41 44 -46 33 21  + 349.4299
25  2 16  + 54  8  9 -47 58 56  + 374.3026
25  2 17  + 59 48 56 -49  6 15  + 402.2899
25  2 18  + 65 40 31 -49 54 13  + 433.2201
25  2 19  + 71 38 13 -50 22  9  + 466.9101
25  2 20  + 77 36 47 -50 29 56  + 503.1670
25  2 21  + 83 30 47 -50 17 59  + 541.7918
25  2 22  + 89 15  8 -49 47 14  + [illegible]
25  2 23  + 94 45 46 -48 59  5  + 625.3219
25  2 24  + 99 59 36 -47 55 11  + 669.8098
25  2 25  +104 54 50 -46 37 23  + 715.8330
25  2 26  +109 30 39 -45  7 31  + 763.1832
25  2 27  +113 47 11 -43 27 23  + 811.6544
25  2 28  +117 45  5 -41 38 39  + 861.0439
25  2 29  +121 25 31 -39 42 48  + 911.1536
25  2 30  +124 49 50 -37 41 10  + 961.7904
25  2 31  +127 59 26 -35 34 53  +1012.7666
25  2 32  +130 55 49 -33 24 57  +1063.9017
25  2 33  +133 40 19 -31 12 10  +1115.0206
25  2 34  +136 14 18 -28 57 16  +1165.9560
 OOMERA 40  25 2  34 12.987
                +16.5877  1219.5377    N
25  2 35  +138 38 54 -26 40 51  +1216.5471
25  2 36  +140 55 16 -24 23 23  +1266.6393
25  2 37  +143  4 20 -22  5 18  +1316.0877
25  2 38  +145  7  2 -19 46 57  +1364.7526
25  2 39  +147  4 11 -17 28 37  +1412.5017
25  2 40  +148 56 29 -15 10 33  +1459.2102
```

```
25   2 41   +150 44 36 -12 52 56   +1504.7595
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25   2 51   +166 46 13 + 9 11 26   +1875.1020
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25   2 57   +176 25 44 +21 22 14   +2003.4644
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25 20 44   -126  3 15 -15 42  7   +1413.9713
25 20 45   -124 13  8 -13 23  8   +1460.6832
25 20 46   -122 26 49 -11  4 47   +1506.2338
25 20 47   -120 43 44 - 8 47 13   +1550.5115
25 20 48   -119  3 22 - 6 30 34   +1593.4112
25 20 49   -117 25 16 - 4 14 55   +1634.8341
25 20 50   -115 48 55 - 2  0 23   +1674.6875

25 20 50 54 -114 23 14 P  807     +1709.1556

25 20 51   -114 13 59 + 0 12 58   +1712.8852
25 20 52   -112 39 59 + 2 25  4   +1749.3461
25 20 53   -111  6 37 + 4 35 51   +1783.9953
25 20 54   -109 33 29 + 6 45 17   +1816.7629
25 20 55   -108  0 15 + 8 53 18   +1847.5840
25 20 56   -106 26 33 +10 59 51   +1876.3997
25 20 57   -104 52  1 +13  4 54   +1903.1554
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25 20 59   -101 39 10 +17 10 13   +1950.2904
25 21  0   -100  0  6 +19 10 22   +1970.5830
25 21  1   - 98 18 49 +21  8 45   +1988.6420
25 21  2   - 96 34 54 +23  5 17   +2004.4348
25 21  3   - 94 47 59 +24 59 53   +2017.9328
25 21  4   - 92 57 37 +26 52 25   +2029.1107
25 21  5   - 91  3 23 +28 42 46   +2037.9477
25 21  6   - 89  4 51 +30 30 47   +2044.4275
25 21  7   - 87  1 32 +32 16 17   +2048.5356
25 21  8   - 84 52 54 +33 59  6   +2050.2637
25 21  9   - 82 38 31 +35 38 59   +2049.6049
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                +45.4675  2622.0202     N
25 21 10   - 80 17 48 +37 15 42   +2046.5573
25 21 11   - 77 50 18 +38 48 56   +2041.1232
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                + 3.4056  2041.8316     N
25 21 12   - 75 15 24 +40 18 23   +2033.3067
25 21 13   - 72 32 41 +41 43 39   +2023.1179
25 21 14   - 69 41 42 +43  4 22   +2010.5695
25 21 15   - 66 41 58 +44 20  4   +1995.6789
25 21 16   - 63 33 16 +45 30 15   +1978.4666
25 21 17   - 60 15 22 +46 34 25   +1958.9588
25 21 18   - 56 48 18 +47 31 60   +1937.1847
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25 21 20   - 49 27 35 +49  5  7   +1886.9788
25 21 21   - 45 35  3 +49 39 30   +1858.6307
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25 21 23   - 37 30 26 +50 21 15   +1795.6889
25 21 24   - 33 21  4 +50 27 42   +1761.2092
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25 21 26   - 24 56 22 +50 10  6   +1686.5623
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25 21 28   - 16 35 30 +49 10 54   +1604.8435
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25 21 32   -  0 53 44 +45 10 48   +1423.1480
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25 21 35   +  9 32 43 +40 33 59   +1274.4683
25 21 36   + 12 45  4 +38 45 26   +1223.2591
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25 21 38   + 18 46 35 +34 46 26   +1119.3006
25 21 39   + 21 36 39 +32 36 46   +1066.8942
25 21 40   + 24 20 20 +30 20 48   +1014.4455
25 21 41   + 26 58 13 +27 58 53   + 962.1474
25 21 42   + 29 30 57 +25 31 21   + 910.2009
25 21 43   + 31 59 10 +22 58 32   + 858.8137
25 21 44   + 34 23 30 +20 20 45   + 808.2008
25 21 45   + 36 44 38 +17 38 18   + 758.5820
25 21 46   + 39  3 13 +14 51 31   + 710.1822
25 21 47   + 41 19 53 +12  0 44   + 663.2287
25 21 48   + 43 35 20 + 9  6 17   + 617.9508
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25 21 50   + 48  5 19 + 3  7 52   + 533.3332
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25 21 52   + 52 38 52 - 3  0 30   + 458.1147
25 21 53   + 54 58 55 - 6  7 15   + 424.5591
25 21 54   + 57 22 15 - 9 15  0   + 393.9675
25 21 55   + 59 49 49 -12 23  9   + 366.5199
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25 22 17   +158 57 33 -47 40 23   + 649.3406
25 22 18   +163 51 30 -46 19 11   + 694.6576
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25 22 21   +176 36 34 -41 11 15   + 838.3454
25 22 22   -179 44 49 -39 12 41   + 888.1409
25 22 23   -176 22 14 -37  8 30   + 938.5570
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25 22 28   -162 39 44 -25 57 44   +1193.5042
25 22 29   -160 24 14 -23 38 34   +1243.8698
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25 22 35   -148 52 45 -  9 43 20   +1529.2317
25 22 36   -147 11 13 -  7 26 10   +1572.8160
25 22 37   -145 32 10 -  5  9 60   +1614.9703
25 22 38   -143 55  3 -  2 54 54   +1655.5997
25 22 39   -142 19 30 -  0 40 57   +1694.6142

25 22 39 18 -141 50 28 P   808     +1706.0915

25 22 40   -140 45  6 +  1 31 46   +1731.9300
25 22 41   -139 11 27 +  3 43 11   +1767.4695
25 22 42   -137 38 12 +  5 53 16   +1801.1605
25 22 43   -136  4 58 +  8  1 56   +1832.9359
25 22 44   -134 31 25 +10  9 10   +1862.7334
25 22 45   -132 57 12 +12 14 53   +1890.4964
25 22 46   -131 21 59 +14 19  4   +1916.1723
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25 22 50   -124 43 49 +22 18 60   +1997.1187
25 22 51   -122 58  6 +24 14 24   +2011.7322
25 22 52   -121  9  8 +26  7 48   +2024.0364
25 22 53   -119 16 29 +27 59  4   +2034.0094
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25 22 56   -113 11 51 +33 18 30   +2049.7688
25 22 57   -110 59 49 +34 59 35   +2050.2643
25 22 58   -108 41 41 +36 37 36   +2048.3710
25 22 59   -106 16 57 +38 12 14   +2044.0897
25 23  0   -103 45  5 +39 43 13   +2037.4223
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25 23  2   -  98 17 58 +42 32 46   +2016.9653
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25 23  4   -  92 16 48 +45  2 55   +1987.1057
25 23  5   -  89  2 40 +46  9 32   +1968.7008
25 23  6   -  85 39 20 +47  9 47   +1948.0140
25 23  7   -  82  6 55 +48  3  7   +1925.0782
 FTSTEW 48  25 23 7   9.963
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25 23 11   -  66 36 54 +50 15 52   +1811.6481
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25 23 14   -  54  5 49 +50 17  0   +1705.2606
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25 23 16   -  45 43 27 +49 26 18   +1625.1790
25 23 17   -  41 36 55 +48 45 22   +1582.6378
25 23 18   -  37 35 27 +47 54 14   +1538.5545
25 23 19   -  33 40 14 +46 53 10   +1493.0335
25 23 20   -  29 52 13 +45 42 28   +1446.1846
25 23 21   -  26 11 59 +44 22 30   +1398.1280
25 23 22   -  22 39 57 +42 53 42   +1348.9918
25 23 23   -  19 16 13 +41 16 27   +1298.9105
25 23 24   -  16  0 43 +39 31 12   +1248.0300
25 23 25   -  12 53 12 +37 38 21   +1196.5038
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25 23 29   -   1 34 26 +28 58 50   + 987.3242
25 23 30   +   1  0 15 +26 33 45   + 935.1826
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25 23 33   +   8 18  9 +18 47 15   + 782.3634
25 23 34   +  10 37 36 +16  2 23   + 733.3500
25 23 35   +  12 54 52 +13 13 23   + 685.6733
25 23 36   +  15 10 39 +10 20 34   + 639.5616
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25 23 45   +  36 25  8 -17 18  3   + 331.2591
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26  0  4   +123 59  3 -49 11 44   + 585.2300
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26  0  6   +134 22 18 -46 55  3   + 672.5953
26  0  7   +139  5  6 -45 26 40   + 718.6740
26  0  8   +14[illegible] [illegible] [illegible] -4[illegible] 47 26   + 7[illegible]
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26  0 10   +151 18 15 -40  3  7   + 864.0120
26  0 11   +154 47 34 -38  1  2   + 914.1524
26  0 12   +158  1 41 -35 53 60   + 964.8146
26  0 13   +161  2  4 -33 43  3   +1015.8117
26  0 14   +163 50  7 -31 29  6   +1066.9624
26  0 15   +166 27 15 -29 12 52   +1118.0921
26  0 16   +168 54 39 -26 55  0   +1169.0337
26  0 17   +171 13 31 -24 36  3   +1219.6257
26  0 18   +173 24 51 -22 16 25   +1269.7148
26  0 19   +175 29 34 -19 56 30   +1319.1544
26  0 20   +177 28 31 -17 36 36   +1367.8049
26  0 21   +179 22 27 -15 16 59   +1415.5348
26  0 22   -178 47 56 -12 57 51   +1462.2179
26  0 23   -177  2  3 -10 39 24   +1507.7363
26  0 24   -175 19 18 -  8 21 45   +1551.9781
26  0 25   -173 39 13 -  6  5  2   +1594.8387
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26  0 30   -165 42 44 +  5  1 14   +1785.1810
26  0 31   -164  9 27 +  7 10 33   +1817.8916
26  0 32   -162 36  1 +  9 18 27   +1848.6532
26  0 33   -161  2  1 +11 24 51   +1877.4070
26  0 34   -159 27 12 +13 29 43   +1904.0983
26  0 35   -157 51  7 +15 32 60   +1928.6765
26  0 36   -156 13 30 +17 34 37   +1951.0970
26  0 37   -154 33 56 +19 34 31   +1971.3183
26  0 38   -152 52  3 +21 32 37   +1989.3044
26  0 39   -151  7 28 +23 28 51   +2005.0224
26  0 40   -149 19 49 +25 23  5   +2018.4430
26  0 41   -147 28 39 +27 15 14   +2029.5427
26  0 42   -145 33 31 +29  5 10   +2038.2996
26  0 43   -143 33 60 +30 52 42   +2044.6975
26  0 44   -141 29 36 +32 37 42   +2048.7228
26  0 45   -139 19 49 +34 19 56   +2050.3666
26  0 46   -137  4  9 +35 59 11   +2049.6232
26  0 47   -134 42  8 +37 35 11   +2046.4896
26  0 48   -132 13  9 +39  7 39   +2040.9686
26  0 49   -129 36 46 +40 36 14   +2033.0646
26  0 50   -126 52 27 +42  0 35   +2022.7881
26  0 51   -123 59 46 +43 20 16   +2010.1510
26  0 52   -120 58 22 +44 34 50   +1995.1719
26  0 53   -117 47 56 +45 43 48   +1977.8715
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26  0 55   -110 59 37 +47 42 45   +1936.4134
26  0 56   -107 22  0 +48 31 37   +1912.3203
26  0 57   -103 35 58 +49 12 39   +1886.0352
26  0 58   -  99 42 14 +49 45 17   +1857.6018
26  0 59   -  95 41 52 +50  8 59   +1827.0705
26  1  0   -  91 36  4 +50 23 17   +1794.4945
26  1  1   -  87 26 24 +50 27 47   +1759.9348
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26  1  4   -  74 51 14 +49 39 53   +1645.0455
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26  1 16   -  32 49 49 +32 14  8   +1064.8914
26  1 17   -  30  7 29 +29 57 23   +1012.4436
26  1 18   -  27 30 47 +27 34 45   + 960.1547
26  1 19   -  24 59  9 +25  6 36   + 908.2268
26  1 20   -  22 31 54 +22 33 13   + 856.8666
26  1 21   -  20  8 23 +19 54 55   + 806.2897
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26  1 23   -  15 29 58 +14 24 52   + 708.3727
26  1 24   -  13 13 46 +11 33 44   + 661.4847
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26  1 25   -  10 58 39 +  8 39  1   + 616.2812
26  1 26   -   8 43 59 +  5 41  2   + 572.9911
26  1 27   -   6 29  2 +  2 40 12   + 531.8402
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26  1 29   -   1 55 19 -  3 28 20   + 456.8326
26  1 30   +   0 24 59 -  6 35  4   + 423.3943
26  1 31   +   2 48 45 -  9 42 44   + 392.9272
26  1 32   +   5 16 51 -12 50 43   + 365.6085
26  1 33   +   7 50 20 -15 58 22   + 341.6009
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26  1 37   +  19 21 12 -28  9 35   + 281.1972
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26  1 47   +  64 34 47 -49 22 54   + 390.5659
26  1 48   +  70 31 15 -50  5  4   + 420.2332
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26  1 51   +  88 27 44 -50  9 48   + 525.4927
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26  1 53   +  99 39 29 -48 38 19   + 607.2510
26  1 54   +104 50  6 -47 28 32   + 650.9906
26  1 55   +109 41 24 -46  5 12   + 696.3587
26  1 56   +114 12 59 -44 30 13   + 743.1471
26  1 57   +118 25  7 -42 45 22   + 791.1489
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26  2  9   +151  9 27 -16 13 45   +1392.7410
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26  2 11   +154 48 18 -11 35 23   +1486.0415
26  2 12   +156 32 22 -  9 17 16   +1530.9142
26  2 13   +158 13 34 -  7  0  3   +1574.4550
26  2 14   +159 52 25 -  4 43 51   +1616.5621
26  2 15   +161 29 21 -  2 28 45   +1657.1403
26  2 16   +163  4 49 -  0 14 50   +1696.1003

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26  2 20   +169 19 40 +  8 27 43   +1834.1719
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26   2 26   +179  0 22 +20 46 11   +1981.0023
26   2 27   -179 16  7 +22 43 12   +1997.8128
26   2 28   -177 29 41 +24 38 16   +2012.3399
26   2 29   -175 39 55 +26 31 17   +2024.5563
26   2 30   -173 46 23 +28 22  8   +2034.4392
26   2 31   -171 48 38 +30 10 39   +2041.9701
26   2 32   -169 46 10 +31 56 41   +2047.1344
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26   2 56   - 87 50 53 +46 40 30   +1491.1002
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26   6  9   +135 47 26 +32 19 35   +2047.4107
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26   6 11   +140 10 51 +35 42  7   +2050.3640
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26 20 31   - 93 26 11 +23  3 24   +1987.1869
26 20 32   - 91 38 48 +24 58 29   +2003.2669
26 20 33   - 89 48  4 +26 51 26   +2017.0493
26 20 34   - 87 53 30 +28 42  6   +2028.5092
26 20 35   - 85 54 42 +30 30 22   +2037.6239
26 20 36   - 83 51 10 +32 16  2   +2044.3772
 HAVANA 47  26 20 36 37.100
              +38.6444  2442.4346     N
26 20 37   - 81 42 25 +33 58 57   +2048.7543
 FTSTEW 48  26 20 37  5.486
              + 8.7858  2067.3666     N
26 20 38   - 79 27 60 +35 38 52   +2050.7462
26 20 39   - 77  7 22 +37 15 33   +2050.3453
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26 20 40   - 74 39 60 +38 48 42   +2047.5505
26 20 41   - 72  5 24 +40 18  0   +2042.3624
26 20 42   - 69 23  7 +41 43  7   +2034.7857
26 20 43   - 66 32 41 +43  3 38   +2024.8297
26 20 44   - 63 33 45 +44 19  7   +2012.5069
26 20 45   - 60 25 59 +45 29  7   +1997.8345
26 20 46   - 57  9 14 +46 33  6   +1980.8332
26 20 47   - 53 43 31 +47 30 32   +1961.5286
26 20 48   - 50  9  1 +48 20 53   +1939.9499
26 20 49   - 46 26 10 +49  3 35   +1916.1309
26 20 50   - 42 35 36 +49 38  5   +1890.1111
26 20 51   - 38 38 18 +50  3 53   +1861.9339
26 20 52   - 34 35 27 +50 20 29   +1831.6484
26 20 53   - 30 28 28 +50 27 31   +1799.3088
26 20 54   - 26 18 59 +50 24 38   +1764.9743
26 20 55   - 22  8 39 +50 11 39   +1728.7118
26 20 56   - 17 59 15 +49 48 26   +1690.5923
26 20 57   - 13 52 25 +49 14 59   +1650.6945
26 20 58   -  9 49 41 +48 31 25   +1609.1031
26 20 59   -  5 52 23 +47 37 56   +1565.9107
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26 21  1   +  1 41 60 +45 22 19   +1475.1265
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26 21  4   + 12  4 49 +40 52 49   +1329.6771
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26 21 10   + 29 25 48 +28 35 11   +1019.2763
26 21 11   + 31 57 52 +26 10 46   + 966.9562
26 21 12   + 34 25 21 +23 41  4   + 914.9747
26 21 13   + 36 48 56 +21  6 23   + 863.5394
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26 21 15   + 41 26 52 +15 43 17   + 763.1697
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26 21 19   + 50 23 60 + 4 10 45   + 578.7008
26 21 20   + 52 38 16 + 1  9 58   + 537.2981
26 21 21   + 54 53 59 - 1 53  6   + 498.2278
26 21 22   + 57 11 54 - 4 57 58   + 461.7044
26 21 23   + 59 32 51 - 8  4  8   + 427.9329
26 21 24   + 61 57 43 -11 11  3   + 397.1053
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26 22  4   -145 55 48 - 9 59 26   +1480.0261
26 22  5   -144 12 41 - 7 40 36   +1525.1154
26 22  6   -142 32  7 - 5 22 48   +1568.8871
26 22  7   -140 53 38 - 3  6  8   +1611.2380
26 22  8   -139 16 51 - 0 50 42   +1652.0717

26 22  8 22 -138 40 49 P  821     +1666.8542

26 22  9   -137 41 16 + 1 23 26   +1691.2965
26 22 10   -136  6 34 + 3 36 12   +1728.8290
26 22 11   -134 32 17 + 5 47 32   +1764.5894
26 22 12   -132 58  7 + 7 57 23   +1798.5050
26 22 13   -131 23 42 +10  5 42   +1830.5069
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26 22 24  -112  4  0 +31 37 20  +2041.6442
26 22 25  -109 57 13 +33 21 18  +2047.1030
26 22 26  -107 44 57 +35  2 21  +2050.1797
26 22 27  -105 26 39 +36 40 15  +2050.8667
26 22 28  -103  1 51 +38 14 44  +2049.1589
26 22 29  -100 29 59 +39 45 30  +2045.0562
26 22 30  - 97 50 37 +41 12 12  +2038.5623
26 22 31  - 95  3 17 +42 34 27  +2029.6839
26 22 32  - 92  7 33 +43 51 50  +2018.4323
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26 22 35  - 82 27 27 +47 10  2  +1970.6079
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26 22 36  - 78 56 16 +48  3  4  +1950.0543
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26 22 37  - 75 16 34 +48 48 39  +1927.2445
26 22 38  - 71 28 53 +49 26 15  +1902.2149
26 22 39  - 67 34  6 +49 55 19  +1875.0074
26 22 40  - 63 33 19 +50 15 23  +1845.6686
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26 23 17  + 46 56 48 -25 21 11  + 298.6077
26 23 18  + 50  3 49 -28 18 42  + 286.8596
26 23 19  + 53 22 48 -31 11 24  + 278.8749
26 23 20  + 56 55 17 -33 58  3  + 274.6929
26 23 21  + 60 42 54 -36 37 16  + 274.3278
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26 23 50  -177 41 38 -15 33 18  +1364.5314
26 23 51  -175 50  5 -13 12 26  +1412.3786
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 BPOINT 49  27 0  31 43.752
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27  1 47  +169 24 13 + 4  9 53  +1732.3946
27  1 48  +170 58 33 + 6 21  2  +1767.9888
27  1 49  +172 32 54 + 8 30 41  +1801.7300
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27  1 52  +177 19 24 +14 50  1  +1891.1903
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27  2  3  -162  1 37 +35 28 57  +2050.4377
27  2  4  -159 41 36 +37  5 58  +2050.8892
27  2  5  -157 14 57 +38 39 29  +2048.9453
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27  2  7  -151 59 46 +41 34 41  +2037.8739
27  2  8  -149 10 17 +42 55 39  +2028.7583
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27  2 13  -132 52 12 +48 15 52   +1947.9577
27  2 14  -129 10 31 +48 59 21   +1924.9202
27  2 15  -125 21  8 +49 34 43   +1899.6662
27  2 16  -121 24 55 +50  1 27   +1872.2383
27  2 17  -117 23  3 +50 19  5   +1842.6828
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27  2 25  - 84 51 25 +46 43 31   +1537.1863
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27  2 26  - 81  7 29 +45 32 26   +1491.5666
27  2 27  - 77 31 18 +44 12 24   +1444.6258
 BPOINT 49   27 2   27    7.075
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27  2 28  - 74  3  8 +42 43 48   +1396.4839
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27  2 37  - 48 18 59 +24  5 40   + 933.2414
27  2 38  - 45 55 13 +21 32 11   + 881.5933
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27  2 40  - 41 17 11 +16 11 22   + 780.5705
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27  3 13  + 87  0 38 -45 32 35   + 673.8499
27  3 14  + 91 28 19 -43 52 41   + 719.9361
27  3 15  + 95 36 31 -42  3 17   + 767.3440
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27  3 56  -177 39 15 +42 26 50   +2033.1702
27  3 57  -174 44 28 +43 44 39   +2022.7399
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27  4  0  -165  7 30 +47  4 27   +1977.3320
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27  4  2  -157 58 52 +48 44 24   +1935.5262
27  4  3  -154 12 18 +49 22 47   +1911.2551
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 LIMAPU 45   27 6  25 11.457
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27  6 40  - 23 18 44 -47 42  1   + 332.8592
27  6 41  - 17 36 24 [illegible]   + [illegible]
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27  7 29  +117 47 23 +36 58 17   +2051.1312
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27  7 37  +140 57 12 +47 20  7   +1975.2920
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27 20 22  - 25 54 43 +50 27 37   +1823.1507
27 20 23  - 21 46 58 +50 21 40   +1790.2033
27 20 24  - 17 39  5 +50  5 44   +1755.2773
27 20 25  - 13 32 42 +49 39 45   +1718.4412
27 20 26  -  9 29 22 +49  3 47   +1679.7688
27 20 27  -  5 30 34 +48 17 56   +1639.3407
27 20 28  -  1 37 26 +47 22 26   +1597.2447
27 20 29  +  2  9  1 +46 17 36   +1553.5755
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27 20 31  +  9 19 28 +43 41 13   +1461.9329
27 20 32  + 12 42 48 +42 10 28   +1414.1867
27 20 33  + 15 58  7 +40 31 51   +1365.3229
27 20 34  + 19  5 36 +38 45 46   +1315.4758
27 20 35  + 22  5 33 +36 52 37   +1264.7879
27 20 36  + 24 58 21 +34 52 45   +1213.4116
27 20 37  + 27 44 30 +32 46 30   +1161.5073
27 20 38  + 30 24 31 +30 34 14   +1109.2442
27 20 39  + 32 58 60 +28 16 15   +1056.8006
27 20 40  + 35 28 30 +25 52 50   +1004.3634
27 20 41  + 37 53 40 +23 24 16   + 952.1268
27 20 42  + 40 15  6 +20 50 51   + 900.2937
27 20 43  + 42 33 23 +18 12 51   + 849.0733
27 20 44  + 44 49 12 +15 30 33   + 798.6808
27 20 45  + 47  3  8 +12 44 13   + 749.3371
27 20 46  + 49 15 51 + 9 54  9   + 701.2664
27 20 47  + 51 27 60 + 7  0 41   + 654.6955
27 20 48  + 53 40 12 + 4  4  8   + 609.8521
27 20 49  + 55 53 13 + 1  4 52   + 566.9623
27 20 50  + 58  7 42 - 1 56 42   + 526.2495
27 20 51  + 60 24 28 - 5  0 10   + 487.9312
27 20 52  + 62 44 19 - 8  4 60   + 452.2180
27 20 53  + 65  8  8 -11 10 41   + 419.3099
27 20 54  + 67 36 53 -14 16 38   + 389.3948
27 20 55  + 70 11 33 -17 22  9   + 362.6456
27 20 56  + 72 53 20 -20 26 31   + 339.2185
27 20 57  + 75 43 27 -23 28 53   + 319.2509
27 20 58  + 78 43 11 -26 28 19   + 302.8582
27 20 59  + 81 54  5 -29 23 48   + 290.1348
27 21  0  + 85 17 36 -32 14 10   + 281.1511
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27 21  2  + 92 48 59 -37 34 13   + 274.5606
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27 21  4  +101 29 20 -42 16 32   + 283.1553
27 21  5  +106 18  1 -44 19 13   + 293.0618
27 21  6  +111 26  5 -46  7  9   + 306.6149
27 21  7  +116 52 31 -47 38 31   + 323.7185
27 21  8  +122 35 16 -48 51 39   + 344.2572
27 21  9  +128 30 52 -49 45 10   + 368.0960
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27 21 13  +152 39 53 -49 52 47   + 493.2577
27 21 14  +158 21 30 -49  5 34   + 531.0977
27 21 15  +163 46 14 -48  1 27   + 571.1682
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27 21 17  +173 37 19 -45 10 18   + 657.1792
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27 21 20  -174  4 20 -39 34 42   + 797.7641
27 21 21  -170 33 57 -37 28 29   + 846.8870
27 21 22  -167 18 58 -35 17 19   + 896.8058
27 21 23  -164 17 53 -33  2 17   + 947.3253
27 21 24  -161 29 10 -30 44 19   + 998.2557
27 21 25  -158 51 28 -28 24 11   +1049.4132
27 21 26  -156 23 29 -26  2 31   +1100.6203
27 21 27  -154  4  3 -23 39 53   +1151.7055
27 21 28  -151 52  8 -21 16 43   +1202.5052
27 21 29  -149 46 46 -18 53 25   +1252.8613
27 21 30  -147 47  6 -16 30 18   +1302.6237
27 21 31  -145 52 22 -14  7 37   +1351.6491
27 21 32  -144  1 54 -11 45 35   +1399.8014
27 21 33  -142 15  4 - 9 24 24   +1446.9517
27 21 34  -140 31 17 - 7  4 13   +1492.9781
27 21 35  -138 50  1 - 4 45 10   +1537.7653
27 21 36  -137 10 51 - 2 27 20   +1581.2046
27 21 37  -135 33 15 - 0 10 49   +1623.1942

27 21 37  4 -135 25 33 P  834    +1626.4186

27 21 38  -133 56 51 + 2  4 17   +1663.6385
27 21 39  -132 21 13 + 4 17 56   +1702.4472
27 21 40  -130 45 59 + 6 30  2   +1739.5377
27 21 41  -129 10 49 + 8 40 34   +1774.8318
27 21 42  -127 35 16 +10 49 27   +1808.2569
27 21 43  -125 59  4 +12 56 38   +1839.7461
27 21 44  -124 21 47 +15  2  4   +1869.2379
27 21 45  -122 43  7 +17  5 41   +1896.6752
27 21 46  -121  2 41 +19  7 26   +1922.0065
27 21 47  -119 20  5 +21  7 13   +1945.1836
27 21 48  -117 34 59 +23  4 59   +1966.1645
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27 21 49  -115 46 55 +25  0 36   +1984.9102
27 21 50  -113 55 32 +26 54  0   +2001.3863
27 21 51  -112  0 23 +28 45  2   +2015.5634
27 21 52  -110  1  1 +30 33 33   +2027.4145
27 21 53  -107 57  0 +32 19 24   +2036.9187
27 21 54  -105 47 51 +34  2 24   +2044.0553
27 21 55  -103 33  2 +35 42 19   +2048.8141
27 21 56  -101 12  6 +37 18 54   +2051.1806
27 21 57  - 98 44 32 +38 51 54   +2051.1493
27 21 58  - 96  9 51 +40 20 59   +2048.7178
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27 22  2   - 84 31 25 +45 30 40   +2015.0568
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27 22  5   - 74 17 14 +48 21 16   +1965.0299
27 22  6   - 70 35 47 +49  3 39   +1943.7505
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27 22  8   - 62 51 25 +50  3 36   +1894.4806
27 22  9   - 58 50 38 +50 20 12   +1866.5727
27 22 10   - 54 45 54 +50 27 23   +1836.5458
27 22 11   - 50 38 47 +50 24 50   +1804.4539
27 22 12   - 46 30 55 +50 12 22   +1770.3567
27 22 13   - 42 24  1 +49 49 53   +1734.3188
27 22 14   - 38 19 39 +49 17 23   +1696.4127
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27 22 16   - 30 24 17 +47 42 51   +1615.3132
27 22 17   - 26 35 36 +46 41 16   +1572.2964
27 22 18   - 22 54  2 +45 30 35   +1527.7638
27 22 19   - 19 20  9 +44 11  7   +1481.8225
27 22 20   - 15 54 11 +42 43 18   +1434.5865
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27 22 22   -  9 26 12 +39 24  5   +1336.7293
27 22 23   -  6 23 48 +37 33 30   +1286.3782
27 22 24   -  3 28 41 +35 36  4   +1235.2735
27 22 25   -  0 40 24 +33 32 11   +1183.5717
27 22 26   +  2  1 35 +31 22  9   +1131.4387
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27 22 38   + 29 51 31 - 0 49 49   + 543.2584
27 22 39   + 32  7 16 - 3 52 31   + 503.9022
27 22 40   + 34 25 47 - 6 56 48   + 467.0632
27 22 41   + 36 47 58 -10  2  9   + 432.9452
27 22 42   + 39 14 40 -13  7 59   + 401.7421
27 22 43   + 41 46 59 -16 13 39   + 373.6332
27 22 44   + 44 25 54 -19 18 28   + 348.7817
27 22 45   + 47 12 43 -22 21 37   + 327.3332
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27 22 47   + 53 15 13 -28 19 14   + 295.1237
27 22 48   + 56 33 50 -31 11 37   + 284.5467
27 22 49   + 60  6  6 -33 58  5   + 277.7380
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27 22 57   + 98 51 29 -49 27 44   + 357.6041
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27 23  4   +139 35 48 -47 12 55   + 595.1524
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27 23  8   +157  8 44 -40 19  1   + 777.1848
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27 23 10   +164  5 52 -36  5  8   + 875.5150
27 23 11   +167 11 58 -33 51 16   + 925.8038
27 23 12   +170  5  7 -31 34  8   + 976.5838
27 23 13   +172 46 47 -29 14 34   +1027.6690
27 23 14   +175 18 16 -26 53 14   +1078.8786
27 23 15   +177 40 46 -24 30 46   +1130.0393
27 23 16   +179 55 23 -22  7 36   +1180.9831
27 23 17   -177 56 53 -19 44 10   +1231.5493
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27 23 19   -173 58 39 -14 57 49   +1330.9447
27 23 20   -172  6 39 -12 35 24   +1379.4880
27 23 21   -170 18 28 -10 13 47   +1427.0833
27 23 22   -168 33 35 - 7 53  6   +1473.6057
27 23 23   -166 51 24 - 5 33 31   +1518.9367
27 23 24   -165 11 26 - 3 15  7   +1562.9656
27 23 25   -163 33 16 - 0 58  2   +1605.5865

27 23 25 25 -162 51 58 P  835     +1623.1141

27 23 26   -161 56 24 + 1 17 41   +1646.7017
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27 23 28   -158 45  4 + 5 44 42   +1724.0522
27 23 29   -157  9 49 + 7 55 52   +1760.1210
27 23 30   -155 34 22 +10  5 24   +1794.3511
27 23 31   -153 58 22 +12 13 15   +1826.6725
27 23 32   -152 21 25 +14 19 23   +1857.0214
27 23 33   -150 43 12 +16 23 42   +1885.3391
27 23 34   -149  3 20 +18 26  9   +1911.5721
27 23 35   -147 21 28 +20 26 41   +1935.6696
27 23 36   -145 37 12 +22 25 11   +1957.5881
27 23 37   -143 50  8 +24 21 36   +1977.2869
27 23 38   -141 59 53 +26 15 49   +1994.7298
27 23 39   -140  6  1 +28  7 41   +2009.8854
27 23 40   -138  8  7 +29 57  7   +2022.7252
27 23 41   -136  5 41 +31 43 54   +2033.2261
27 23 42   -133 58 18 +33 27 54   +2041.3677
27 23 43   -131 45 26 +35  8 54   +2047.1342
27 23 44   -129 26 36 +36 46 39   +2050.5133
27 23 45   -127  1 21 +38 20 54   +2051.4967
27 23 46   -124 29  7 +39 51 20   +2050.0800
27 23 47   -121 49 29 +41 17 38   +2046.2621
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27 23 49   -116  6 14 +43 56 17   +2031.4380
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27 23 51   -109 48 57 +46 13 25   +2007.0956
27 23 52   -106 27 11 +47 12 43   +1991.3945
27 23 53   -102 56 46 +48  5  8   +1973.3696
27 23 54   - 99 18  5 +48 50  8   +1953.0476
27 23 55   - 95 31 43 +49 27 13   +1930.4618
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27 23 56   - 91 38 30 +49 55 51   +1905.6473
27 23 57   - 87 39 31 +50 15 35   +1878.6461
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27 23 59   - 79 29 47 +50 26 49   +1818.2741
 BPOINT 49   27 23 59 34.745
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28  0  0   - 75 22 10 +50 17 46   +1785.0124
28  0  1   - 71 14 55 +49 58 44   +1749.7823
28  0  2   - 67  9 40 +49 29 41   +1712.6520
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28  0  5   - 55 20 25 +47  3 40   +1590.6506
28  0  6   - 51 36 29 +45 56  9   +1546.7419
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28  0  9   - 41 10 58 +41 41 54   +1406.7402
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28  0 11   - 34 53 30 +38 13 12   +1307.7214
28  0 12   - 31 56  2 +36 18 14   +1256.9143
28  0 13   - 29  5 34 +34 16 42   +1205.4436
28  0 14   - 26 21 34 +32  8 55   +1153.4711
28  0 15   - 23 43 32 +29 55 13   +1101.1678
28  0 16   - 21 10 50 +27 35 54   +1048.7128
28  0 17   - 18 42 54 +25 11 15   + 996.2944
28  0 18   - 16 19 10 +22 41 34   + 944.1090
28  0 19   - 13 58 57 +20  7  7   + 892.3594
28  0 20   - 11 41 39 +17 28  9   + 841.2559
28  0 21   -  9 26 42 +14 44 59   + 791.0154
28  0 22   -  7 13 23 +11 57 52   + 741.8583
28  0 23   -  5  1  8 + 9  7  7   + 694.0103
28  0 24   -  2 49 16 + 6 13  2   + 647.6977
28  0 25   -  0 37  8 + 3 15 58   + 603.1476
28  0 26   +  1 36  1 + 0 16 17   + 560.5863
28  0 27   +  3 50 50 - 2 45 36   + 520.2360
28  0 28   +  6  8  9 - 5 49 15   + 482.3132
28  0 29   +  8 28 48 - 8 54 10   + 447.0269
28  0 30   + 10 53 39 -11 59 47   + 414.5747
28  0 31   + 13 23 43 -15  5 31   + 385.1425
28  0 32   + 16  0  0 -18 10 39   + 358.9006
28  0 33   + 18 43 42 -21 14 27   + 336.0020
28  0 34   + 21 36  5 -24 16  2   + 316.5807
28  0 35   + 24 38 31 -27 14 27   + 300.7495
28  0 36   + 27 52 27 -30  8 39   + 288.5983
28  0 37   + 31 19 28 -32 57 26   + 280.1935
28  0 38   + 35  1 11 -35 39 29   + 275.5774
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28  0 40   + 43 14 48 -40 37 18   + 277.7549
28  0 41   + 47 49 15 -42 49 46   + 284.5088
28  0 42   + 52 43  9 -44 48 50   + 294.9736
28  0 43   + 57 56 16 -46 32 40   + 309.0708
28  0 44   + 63 27 27 -47 59 28   + 326.7012
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28  0 52   +110 17 37 -47 41 30   + 577.4791
28  0 53   +115 18 18 -46 18 35   + 619.8617
28  0 54   +119 58 41 -44 43  9   + 664.0324
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28  0 56   +128 19 54 -41  2 16   + 756.9076
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28  1  3   +149 24 49 -25 21 20   +1108.4447
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28  1  5   +153 52 28 -20 34 43   +1210.2516
28  1  6   +155 56 19 -18 11 10   +1260.5337
28  1  7   +157 54 43 -15 47 53   +1310.2003
28  1  8   +159 48 20 -13 25  6   +1359.1087
28  1  9   +161 37 53 -11  3  3   +1407.1243
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28  1 11   +165  7  8 - 6 21 47   +1499.9710
28  1 12   +166 47 55 - 4  2 51   +1544.5671
28  1 13   +168 26 45 - 1 45 11   +1587.7989

28  1 13 46 +169 41 47 P  836     +1619.9873

28  1 14   +170  4  8 + 0 31  8   +1629.5655
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28  1 16   +173 16  3 + 4 59 23   +1708.3304
28  1 17   +174 51 23 + 7 11 11   +1745.1569
28  1 18   +176 26 48 + 9 21 23   +1780.1751
28  1 19   +178  2 39 +11 29 54   +1813.3131
28  1 20   +179 39 18 +13 36 42   +1844.5048
28  1 21   -178 42 53 +15 41 43   +1873.6891
28  1 22   -177  3 34 +17 44 53   +1900.8097
28  1 23   -175 22 21 +19 46  8   +1925.8160
28  1 24   -173 38 53 +21 45 23   +1948.6605
28  1 25   -171 52 45 +23 42 34   +1969.3013
28  1 26   -170  3 35 +25 37 34   +1987.7008
28  1 27   -168 10 56 +27 30 17   +2003.8245
28  1 28   -166 14 24 +29 20 35   +2017.6441
28  1 29   -164 13 31 +31  8 19   +2029.1334
28  1 30   -162  7 49 +32 53 18   +2038.2708
28  1 31   -159 56 50 +34 35 20   +2045.0395
28  1 32   -157 40  2 +36 14 13   +2049.4246
28  1 33   -155 16 59 +37 49 40   +2051.4168
28  1 34   -152 47  9 +39 21 25   +2051.0094
28  1 35   -150 10  4 +40 49  9   +2048.2008
28  1 36   -147 25 16 +42 12 29   +2042.9913
28  1 37   -144 32 22 +43 31  2   +2035.3869
28  1 38   -141 30 60 +44 44 22   +2025.3965
28  1 39   -138 21  0 +45 52  1   +2013.0330
28  1 40   -135  2 14 +46 53 29   +1998.3137
28  1 41   -131 34 47 +47 48 16   +1981.2600
28  1 42   -127 58 56 +48 35 49   +1961.8974
28  1 43   -124 15  9 +49 15 36   +1940.2558
28  1 44   -120 24 16 +49 47  8   +1916.3700
 NELCAL 42   28 1  44 51.952
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28  1 45   -116 27 13 +50  9 55   +1890.2792
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28  1 47   -108 19 56 +50 27 38   +1831.6646
28  1 48   -104 12 44 +50 21 58   +1799.2455
28  1 49   -100  5 21 +50  6 21   +1764.8306
28  1 50   - 95 59 25 +49 40 44   +1728.4857
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28  1 52   - 87 58  6 +48 19 46   +1650.3056
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28  1 54  - 80 19 10 +46 20 27  +1565.3646
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28  1 55  - 76 40 18 +45  7  9  +1520.5959
28  1 56  - 73  9 11 +43 45 14  +1474.4365
28  1 57  - 69 46  3 +42 15  5  +1427.0014
28  1 58  - 66 30 52 +40 37  7  +1378.4148
28  1 59  - 63 23 32 +38 51 43  +1328.8092
28  2  0  - 60 23 42 +36 59 15  +1278.3250
28  2  1  - 57 30 59 +35  0  5  +1227.1125
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28  2  5  - 47  1 17 +26  3  9  +1018.2724
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28  2  8  - 39 56 51 +18 25 27  + 862.6102
28  2  9  - 37 41 17 +15 43 53  + 811.9829
28  2 10  - 35 27 34 +12 58 17  + 762.3468
28  2 11  - 33 15  7 +10  8 56  + 713.9249
28  2 12  - 31  3 19 + 7 16  9  + 666.9435
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28  2 32  + 33 57 41 -47 29 47  + 318.9014
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 QUITOE 46   28 5  52  1.847
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28   7  2   +133 10 25 +43 31 27   +2037.6122
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28   7  4   +139 21 36 +45 52 17   +2016.4258
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29  0 36   +162 25 58 -14 24  8   +1285.4586
29  0 37   +164 18 50 -12  0  1   +1334.4662
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29  1  4   -144 28 55 +41 54 24   +2040.1474
29  1  5   -141 37 45 +43 13 48   +2035.7953
29  1  6   -138 38 23 +44 28  3   +2029.0513
29  1  7   -135 30 33 +45 36 41   +2019.9228
29  1  8   -132 14 10 +46 39 13   +2008.4217
29  1  9   -128 49 16 +47 35 11   +1994.5644
29  1 10   -125 16  8 +48 24  2   +1978.3706
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29  1 11   -121 35 11 +49  5 18   +1959.8651
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29  1 12   -117 47 10 +49 38 28   +1939.0764
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                 +57.4045  2905.3434     N
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                 +50.7264  2648.4432     N
 2NOTSS 20   29 1  12  3.147
                 +49.8775  2624.9034     N
29  1 13   -113 52 59 +50  3  4   +1916.0373
29  1 14   -109 53 50 +50 18 42   +1890.7863
 2WHITE 29   29 1  14 46.624
                 +57.2468  2813.5492     N
29  1 15   -105 51  6 +50 25  1   +1863.3667
29  1 16   -101 46 18 +50 21 46   +1833.8262
29  1 17   - 97 41  3 +50  8 47   +1802.2177
29  1 18   - 93 36 58 +49 45 58   +1768.6010
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                 +32.1331  1986.2364     S
29  1 19   - 89 35 36 +49 13 23   +1733.0401
 2RSTON 27   29 1  19 43.996
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29  1 20   - 85 38 21 +48 31  8   +1695.6064
29  1 21   - 81 46 24 +47 39 25   +1656.3769
 FTSTEW 48   29 1  21  4.004
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 CPCAN1 34   29 1  21 18.094
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29  1 22   - 78  0 47 +46 38 31   +1615.4355
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 BELVOR 36   29 1  22 14.042
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 ABDEEN 35   29 1  22 31.345
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29  1 23   - 74 22 12 +45 28 44   +1572.8729
 2FTMON 30   29 1  23  5.458
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29  1 24   - 70 51 10 +44 10 27   +1528.7873
 2VANBU 31   29 1  24 50.020
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                 -21.4806  1579.2854     S
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                 -87.1546  4323.4791     S
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29  1 26   - 64 12 29 +41  9 52   +1436.4766
29  1 27   - 61  4 49 +39 28 20   +1388.4856
29  1 28   - 58  4 39 +37 39 48   +1339.4410
29  1 29   - 55 11 37 +35 44 38   +1289.4806
29  1 30   - 52 25 15 +33 43  9   +1238.7506
29  1 31   - 49 45  5 +31 35 42   +1187.4069
29  1 32   - 47 10 35 +29 22 33   +1135.6126
29  1 33   - 44 41  9 +27  4  1   +1083.5405
29  1 34   - 42 16 12 +24 40 22   +1031.3714
29  1 35   - 39 55 12 +22 11 50   + 979.2943
29  1 36   - 37 37 30 +19 38 41   + 927.5062
29  1 37   - 35 22 32 +17  1 12   + 876.2108
29  1 38   - 33  9 39 +14 19 35   + 825.6185
29  1 39   - 30 58 18 +11 34  9   + 775.9450
29  1 40   - 28 47 49 + 8 45  9   + 727.4104
29  1 41   - 26 37 34 + 5 52 53   + 680.2372
29  1 42   - 24 26 56 + 2 57 40   + 634.6509
29  1 43   - 22 15 11 - 0  0  8   + 590.8753
29  1 44   - 20  1 37 - 3  0 10   + 549.1330
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29  1 46   - 15 25 55 - 9  5  5   + 472.6126
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29  1 48   - 10 32 58 -15 13  4   + 406.7448
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29  1 50   -  5 14 38 -21 19  4   + 353.0088
29  1 51   -  2 22 60 -24 19 23   + 331.0877
29  1 52   +  0 38 46 -27 16 42   + 312.6395
29  1 53   +  3 52  8 -30  9 57   + 297.7700
29  1 54   +  7 18 40 -32 57 56   + 286.5626
29  1 55   + 10 59 59 -35 39 21   + 279.0767
29  1 56   + 14 57 42 -38 12 43   + 275.3489
29  1 57   + 19 13 17 -40 36 24   + 275.3902
29  1 58   + 23 47 52 -42 48 39   + 279.1882
29  1 59   + 28 42  8 -44 47 37   + 286.7064
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29  2  1   + 39 28  2 -47 58  9   + 312.6459
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29  2  3   + 51 16 12 -49 54 13   + 352.4826
29  2  4   + 57 23 31 -50 21 20   + 377.3020
29  2  5   + 63 32 14 -50 27 16   + 405.1907
29  2  6   + 69 36 29 -50 12 21   + 435.9835
29  2  7   + 75 30 44 -49 37 34   + 469.5031
29  2  8   + 81 10 28 -48 44 20   + 505.5642
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29  2 10   + 91 34 37 -46  9 56   + 584.5307
29  2 11   + 96 16 20 -44 32 44   + 627.0347
29  2 12   +100 37 46 -42 44 49   + 671.2799
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29  2 22   +130 18 28 -20  1 55   +1165.3594
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29  2 24   +134 22  6 -15 11 25   +1265.7416
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29  2 28   +141 37 50 - 5 38 58   +1457.7597
29  2 29   +143 19 34 - 3 18 40   +1503.1715
 GUAMIS 37   29 2  29 54.589
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29  2 30   +144 59 27 - 0 59 44   +1547.3090

29  2 30 26 +145 42  5 P  850     +1565.8320

29  2 31   +146 37 54 + 1 17 44   +1590.0669
29  2 32   +148 15 23 + 3 33 40   +1631.3446
29  2 33   +149 52 15 + 5 47 59   +1671.0475
29  2 34   +151 28 57 + 8  0 37   +1709.0886
29  2 35   +153  5 47 +10 11 32   +1745.3864
29  2 36   +154 43 10 +12 20 39   +1779.8641
29  2 37   +156 21 29 +14 27 55   +1812.4515
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29  2 39   +159 42 15 +18 36 38   +1871.6982
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29  2 41   +163 11  4 +22 37 10   +1922.6652
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29  2 52   -172 46 23 +41 28 40   +2041.2487
29  2 53   -169 57 44 +42 49 36   +2037.8459
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29  3  3   -134 33 39 +50 24  3   +1874.5077
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29  3  5   -126 24 20 +50 13 56   +1814.9985
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29  3  7   -118 17 39 +49 24 46   +1747.3640
 NELCAL 42   29 3  7  19.508
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29  3  8   -114 19  8 +48 45 35   +1710.6599
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29  3 12  - 99 23 59 +44 36 29  +1546.4190
29  3 13  - 95 58 23 +43 12 42  +1501.4612
29  3 14  - 92 40 38 +41 41  4  +1455.1537
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29  3 15  - 89 30 40 +40  1 57  +1407.6139
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29  3 17  - 83 33  9 +36 22 47  +1309.3523
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 HAVANA 47   29 3  17 21.174
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 BELVOR 36   29 3  19 20.568
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 ABDEEN 35   29 3  19 44.957
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             -83.4749  3046.2022    S
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29  3 25  - 63 33 15 +17 54  1  + 896.4420
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29  4 59  -131 32 31 +46 14 13  +1606.6259
29  5  0  -127 56 60 +45  1 26  +1563.7294
29  5  1  -124 29  5 +43 40 19  +1519.3312
 PALOTO 33   29 5  1  40.909
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29  5  3  -117 56 45 +40 34 33  +1426.4675
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29  5 14  - 89 29 52 +16  7 19  + 865.4969
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29 17 47  + 66 14 60 +29  5 33  +1160.7078
29 17 48  + 68 42 30 +26 47 32  +1108.7508
29 17 49  + 71  5 40 +24 24 29  +1056.6126
29 17 50  + 73 25  3 +21 56 41  +1004.4776
29 17 51  + 75 41 15 +19 24 20  + 952.5394
29 17 52  + 77 54 50 +16 47 43  + 900.9982
29 17 53  + 80  6 26 +14  7  3  + 850.0614
29 17 54  + 82 16 36 +11 22 36  + 799.9414
29 17 55  + 84 25 59 + 8 34 37  + 750.8566
29 17 56  + 86 35 12 + 5 43 24  + 703.0278
29 17 57  + 88 44 54 + 2 49 15  + 656.6785
29 17 58  + 90 55 45 - 0  7 30  + 612.0327
29 17 59  + 93  8 28 - 3  6 28  + 569.3134
25 18  0  + 95 23 49 - 6  7 16  + 528.7399
29 18  1  + 97 42 38 - 9  9 24  + 490.5264
29 18  2  +100  5 46 -12 12 23  + 454.8792
29 18  3  +102 34 12 -15 15 36  + 421.9954
29 18  4  +105  9  0 -18 18 26  + 392.0593
29 18  5  +107 51 17 -21 20  7  + 365.2420
29 18  6  +110 42 22 -24 19 51  + 341.6968
29 18  7  +113 43 36 -27 16 40  + 321.5596
29 18  8  +116 56 29 -30  9 32  + 304.9461
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29 18 10  +124  3 34 -35 38 32  + 282.6421
29 18 11  +128  1  3 -38 11 51  + 277.0706
29 18 12  +132 16 30 -40 35 36  + 275.2587
29 18 13  +136 51  8 -42 47 59  + 277.2064
29 18 14  +141 45 37 -44 47  9  + 282.8892
29 18 15  +146 59 51 -46 31  9  + 292.2597
29 18 16  +152 32 41 -47 58  8  + 305.2485
29 18 17  +158 21 40 -49  6 21  + 321.7647
29 18 18  +164 23  3 -49 54 27  + 341.6984
29 18 19  +170 31 48 -50 21 30  + 364.9214
29 18 20  +176 42  7 -50 27 13  + 391.2902
29 18 21  -177 11 59 -50 11 56  + 420.6462
29 18 22  -171 16  7 -49 36 35  + 452.8184
29 18 23  -165 34 52 -48 42 37  + 487.6269
29 18 24  -160 11 31 -47 31 50  + 524.8821
29 18 25  -155  8  5 -46  6 15  + 564.3883
29 18 26  -150 25 17 -44 27 54  + 605.9450
29 18 27  -146  2 58 -42 38 44  + 649.3487
29 18 28  -142  0 13 -40 40 34  + 694.3937
29 18 29  -138 15 45 -38 35  3  + 740.8751
29 18 30  -134 48  6 -36 23 37  + 788.5881
29 18 31  -131 35 35 -34  7 30  + 837.3312
29 18 32  -128 36 40 -31 47 47  + 886.9053
29 18 33  -125 49 52 -29 25 22  + 937.1157
29 18 34  -123 13 45 -27  1  1  + 987.7721
29 18 35  -120 47  4 -24 35 21  +1038.6897
29 18 36  -118 28 38 -22  8 57  +1089.6903
29 18 37  -116 17 25 -19 42 14  +1140.6018
29 18 38  -114 12 29 -17 15 35  +1191.2578
29 18 39  -112 13  0 -14 49 19  +1241.4994
29 18 40  -110 18 12 -12 23 42  +1291.1751
29 18 41  -108 27 25 - 9 58 57  +1340.1403
29 18 42  -106 40  1 - 7 35 15  +1388.2563
29 18 43  -104 55 26 - 5 12 44  +1435.3924
29 18 44  -103 13  8 - 2 51 34  +1481.4253
29 18 45  -101 32 41 - 0 31 50  +1526.2380

29 18 45 13 -101  9 57 P  859   +1536.2098

29 18 46  - 99 53 36 + 1 46 23  +1569.7202
29 18 47  - 98 15 26 + 4 [illegible]  +1611.[illegible]
29 18 48  - 96 37 51 + 6 17 54  +1652.2843
29 18 49  - 95  0 22 + 8 31  4  +1691.1785
29 18 50  - 93 22 42 +10 42 25  +1728.3651
29 18 51  - 91 44 25 +12 51 55  +1763.7647
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                -79.1717  4002.7477    N
29 18 52  - 90  5  9 +14 59 28  +1797.3045
29 18 53  - 88 24 35 +17  5  2  +1828.9159
29 18 54  - 86 42 15 +19  8 33  +1858.5360
 2RSTON 27  29 18 54  0.939
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29 18 55  - 84 57 52 +21  9 55  +1886.1072
29 18 56  - 83 10 59 +23  9  3  +1911.5769
 FTSTEW 48  29 18 56 55.045
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 HAVANA 47  29 18 56 21.509
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29 18 57  - 81 21 14 +25  5 53  +1934.8961
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29 18 59  - 77 31 25 +28 52  8  +1974.9153
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 BELVOR 36  29 18 59 11.495
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 ABDEEN 35  29 18 59 43.135
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29 19  0  - 75 30 30 +30 41 18  +1991.5414
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29 19  1  - 73 24 58 +32 27 35  +2005.8689
29 19  2  - 71 14 21 +34 10 50  +2017.8721
29 19  3  - 68 58 11 +35 50 50  +2027.5282
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29 19  4  - 66 35 58 +37 27 19  +2034.8186
29 19  5  - 64  7 15 +39  0  3  +2039.7290
29 19  6  - 61 31 33 +40 28 41  +2042.2488
29 19  7  - 58 48 26 +41 52 56  +2042.3704
29 19  8  - 55 57 33 +43 12 23  +2040.0915
29 19  9  - 52 58 32 +44 26 39  +2035.4122
29 19 10  - 49 51 10 +45 35 17  +2028.3379
29 19 11  - 46 35 25 +46 37 50  +2018.8769
29 19 12  - 43 11 16 +47 33 49  +2007.0415
29 19 13  - 39 38 60 +48 22 44  +1992.8492
29 19 14  - 35 59  5 +49  4  5  +1976.3204
29 19 15  - 32 12 11 +49 37 24  +1957.4803
29 19 16  - 28 19 17 +50  2 13  +1936.3583
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29 19 17  - 24 21 30 +50 18 10  +1912.9894
29 19 18  - 20 20 13 +50 24 53  +1887.4115
29 19 19  - 16 16 54 +50 22  9  +1859.6692
29 19 20  - 12 13 10 +50  9 48  +1829.8120
29 19 21  -  8 10 34 +49 47 45  +1797.8934
29 19 22  -  4 10 38 +49 16  4  +1763.9745
 MADRID 32  29 19 22 11.076
                [illegible]
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29 19 24  +  3 35 53 +47 44 16  +1690.4037
29 19 25  +  7 20 19 +46 44 39  +1650.9032
29 19 26  + 10 57 47 +45 36 16  +1609.7034
29 19 27  + 14 27 50 +44 19 30  +1566.8970
29 19 28  + 17 50 11 +42 54 42  +1522.5832
29 19 29  + 21  4 46 +41 22 15  +1476.8692
29 19 30  + 24 11 43 +39 42 32  +1429.8694
29 19 31  + 27 11 11 +37 55 55  +1381.7066
29 19 32  + 30  3 36 +36  2 44  +1332.5121
29 19 33  + 32 49 20 +34  3 19  +1282.4253
29 19 34  + 35 28 54 +31 57 59  +1231.5936
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29 19 36  + 40 31 39 +27 30 44  +1128.3326
29 19 37  + 42 55 57 +25  9 21  +1076.2419
29 19 38  + 45 16 17 +22 43  7  +1024.0847
29 19 39  + 47 33 18 +20 12 18  + 972.0510
29 19 40  + 49 47 30 +17 37  8  + 920.3387
29 19 41  + 51 59 31 +14 57 50  + 869.1520
29 19 42  + 54  9 57 +12 14 41  + 818.7021
29 19 43  + 56 19 23 + 9 27 56  + 769.2051

29 19 44  + 58 28 28 + 6 37 51  + 720.8809
29 19 45  + 60 37 49 + 3 44 43  + 673.9522
29 19 46  + 62 48  7 + 0 48 53  + 628.6433
29 19 47  + 65  0  5 - 2  9 18  + 585.1767
29 19 48  + 67 14 24 - 5  9 26  + 543.7741
29 19 49  + 69 31 55 - 8 11  5  + 504.6514
29 19 50  + 71 53 30 -11 13 44  + 468.0182
29 19 51  + 74 20  1 -14 16 51  + 434.0750
29 19 52  + 76 52 35 -17 19 48  + 403.0118
29 19 53  + 79 32 16 -20 21 51  + 375.0037
29 19 54  + 82 20 17 -23 22 14  + 350.2119
29 19 55  + 85 18  1 -26 20  3  + 328.7783
29 19 56  + 88 26 54 -29 14 16  + 310.8265
29 19 57  + 91 48 32 -32  3 45  + 296.4588
29 19 58  + 95 24 30 -34 47 14  + 285.7544
29 19 59  + 99 16 27 -37 23 16  + 278.7703
29 20  0  +103 25 56 -39 50 17  + 275.5396
29 20  1  +107 54 15 -42  6 33  + 276.0703
29 20  2  +112 42 19 -44 10 13  + 280.3472
29 20  3  +117 50 17 -45 59 21  + 288.3316
29 20  4  +123 17 22 -47 32  2  + 299.9629
29 20  5  +129  1 36 -48 46 29  + 315.1577
29 20  6  +134 59 36 -49 41 13  + 333.8134
29 20  7  +141  6 43 -50 15  7  + 355.8086
29 20  8  +147 17 23 -50 27 43  + 381.0053
29 20  9  +153 25 30 -50 19  5  + 409.2504
29 20 10  +159 25 21 -49 50  1  + 440.3782
29 20 11  +165 11 55 -49  1 47  + 474.2112
29 20 12  +170 41 28 -47 56  8  + 510.5635
29 20 13  +175 51 37 -46 34 60  + 549.2419
29 20 14  -179 18 49 -45  0 25  + 590.0471
29 20 15  -174 49 49 -43 14 24  + 632.7766
29 20 16  -170 40 48 -41 18 48  + 677.2261
29 20 17  -166 50 32 -39 15 21  + 723.1898
29 20 18  -163 17 33 -37  5 31  + 770.4625
29 20 19  -160  0 15 -34 50 38  + 818.8418
29 20 20  -156 57  6 -32 31 49  + 868.1271
29 20 21  -154  6 30 -30 10  2  + 918.1220
29 20 22  -151 27  2 -27 46  4  + 968.6346
29 20 23  -148 57 23 -25 20 37  +1019.4778
29 20 24  -146 36 22 -22 54 15  +1070.4713
29 20 25  [illegible] -20 27 27  +1121.4398
29 20 26  -142 15 59 -18  0 36  +1172.2149
29 20 27  -140 14 47 -15 34  3  +1222.6353
29 20 28  -138 18 30 -13  8  4  +1272.5461
29 20 29  -136 26 27 -10 42 54  +1321.7998
29 20 30  -134 37 58 - 8 18 43  +1370.2560
29 20 31  -132 52 27 - 5 55 43  +1417.7815
29 20 32  -131  9 26 - 3 33 60  +1464.2485
29 20 33  -129 28 21 - 1 13 41  +1509.5385

29 20 33 31 -128 35 38 P  860   +1532.8362

29 20 34  -127 48 49 + 1  5  7  +1553.5387
29 20 35  -126 10 19 + 3 22 19  +1596.1428
29 20 36  -124 32 30 + 5 37 51  +1637.2510
29 20 37  -122 54 57 + 7 51 39  +1676.7704
29 20 38  -121 17 18 +10  3 39  +1714.6128
29 20 39  -119 39  8 +12 13 48  +1750.6976
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29 20 40  -118  0  9 +14 22  1  +1784.9487
 NELCAL 42  29 20 40 36.712

                -58.5292  2781.6956    N
 2GOLDS 24  29 20 40 41.079
                -64.0568  3047.6003    N
 2NOTSS 20  29 20 40 15.536
                -66.3273  3150.9424    N
29 20 41  -116 19 54 +16 28 16  +1817.2964
29 20 42  -114 38  4 +18 32 28  +1847.6752
29 20 43  -112 54 16 +20 34 32  +1876.0262
29 20 44  -111  8  5 +22 34 24  +1902.2939
29 20 45  -109 19  9 +24 31 59  +1926.4293
29 20 46  -107 27  2 +26 27  9  +1948.3858
 2WHITE 29  29 20 46 22.040
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29 20 47  -105 31 22 +28 19 49  +1968.1240
29 20 48  -103 31 39 +30  9 48  +1985.6060
29 20 49  -101 27 28 +31 56 59  +2000.8013
29 20 50  - 99 18 20 +33 41 10  +2013.6810
29 20 51  - 97  3 47 +35 22  9  +2024.2207
29 20 52  - 94 43 22 +36 59 42  +2032.4010
29 20 53  - 92 16 33 +38 33 33  +2038.2061
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29 20 54  - 89 42 55 +40  3 26  +2041.6230
29 20 55  - 87  1 59 +41 28 59  +2042.6442
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29 20 56  - 84 13 24 +42 49 52  +2041.2646
 FTSTEW 48  29 20 56 55.264
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29 20 57  - 81 16 46 +44  5 40  +2037.4841
 CPCAN1 34  29 20 57 13.062
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 2AFMTC 28  29 20 57 13.309
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29 20 58  - 78 11 53 +45 15 59  +2031.3053
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 BELVOR 36  29 20 58 19.887
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 ABDEEN 35  29 20 58 39.497
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29 20 59  - 74 58 36 +46 20 [illegible]  +20[illegible].7358
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29 21  1  - 68  7  1 +48  9 16  +1998.[illegible]737
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29 21  4  - 56 53 18 +49 55 52  +1944.5618
29 21  5  - 52 56 56 +50 14 26  +1922.0272
29 21  6  - 48 56 38 +50 23 53  +1897.2689
29 21  7  - 44 53 54 +50 23 57  +1870.3290
29 21  8  - 40 50 15 +50 14 26  +1841.2546
29 21  9  - 36 47 18 +49 55 15  +1810.0980
29 21 10  - 32 46 37 +49 26 24  +1776.9173
29 21 11  - 28 49 34 +48 47 60  +1741.7765
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29 21 12  - 24 57 27 +48  0 12  +1704.7454
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29 21 13  - 21 11 16 +47  3 17  +1665.9002
29 21 14  - 17 31 49 +45 57 31  +1625.3233
29 21 15  - 13 59 43 +44 43 17  +1583.1042
29 21 16  - 10 35 12 +43 20 55  +1539.3401
29 21 17  -  7 18 29 +41 50 48  +1494.1351
29 21 18  -  4  9 27 +40 13 18  +1447.6004
 MADRID 32  29 21 18 14.073
              - 2.4264  1437.4673    S
29 21 19  -  1  7 55 +38 28 49  +1399.8561
29 21 20  +  1 46 25 +36 37 41  +1351.0308
29 21 21  +  4 33 58 +34 40 14  +1301.2596
29 21 22  +  7 15 13 +32 36 47  +1250.6885
29 21 23  +  9 50 38 +30 27 38  +1199.4701
29 21 24  + 12 20 49 +28 13  3  +1147.7667
29 21 25  + 14 46 17 +25 53 20  +1095.7488
29 21 26  + 17  7 39 +23 28 42  +1043.5957
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29 21 28  + 21 40 21 +18 25 42  + 939.6399
29 21 29  + 23 52 53 +15 47 48  + 888.2348
29 21 30  + 26  3 36 +13  5 58  + 837.4870
29 21 31  + 28 13 11 +10 20 27  + 787.6110
29 21 32  + 30 22  9 + 7 31 31  + 738.8257
29 21 33  + 32 31 15 + 4 39 27  + 691.3522
29 21 34  + 34 41  5 + 1 44 34  + 645.4147
29 21 35  + 36 52 18 - 1 12 47  + 601.2365
29 21 36  + 39  5 43 - 4 12 14  + 559.0399
29 21 37  + 41 22  1 - 7 13 20  + 519.0429
29 21 38  + 43 42  7 -10 15 37  + 481.4578
29 21 39  + 46  6 52 -13 18 33  + 446.4885
29 21 40  + 48 37 18 -16 21 31  + 414.3292
29 21 41  + 51 14 30 -19 23 52  + 385.1605
29 21 42  + 53 59 39 -22 24 48  + 359.1494
29 21 43  + 56 54  4 -25 23 28  + 336.4447
29 21 44  + 59 59  9 -28 18 54  + 317.1775
29 21 45  + 63 16 28 -31  9 60  + 301.4575
29 21 46  + 66 47 36 -33 55 31  + 289.3734
29 21 47  + 70 34 14 -36 34  6  + 280.9899
29 21 48  + 74 37 53 -39  4 11  + 276.3495
29 21 49  + 79  0  4 -41 24  6  + 275.4699
29 21 50  + 83 41 44 -43 32  1  + 278.3438
29 21 51  + 88 43 22 -45 26  2  + 284.9423
29 21 52  + 94  4 34 -47  4 13  + 295.2122
29 21 53  + 99 43 40 -48 24 43  + 309.0791
29 21 54  +105 37 50 -49 25 55  + 326.4470
29 21 55  +111 42 44 -50  6 35  + 347.2017
29 21 56  +117 53  4 -50 26  1  + 371.2115
29 21 57  +124  2 50 -50 24  6  + 398.3291
29 21 58  +130  6  6 -50  1 25  + 428.3924
29 21 59  +135 57 34 -49 19  6  + 461.2291
29 22  0  +141 33  3 -48 18 44  + 496.6565
29 22  1  +146 49 45 -47  2 14  + 534.4828
29 22  2  +151 46  7 -45 31 37  + 574.5123
29 22  3  +156 21 46 -43 48 56  + 616.5427
29 22  4  +160 37 10 -41 56  4  + 660.3703
29 22  5  +164 33 23 -39 54 49  + 705.7898
29 22  6  +168 11 48 -37 46 43  + 752.5960
29 22  7  +171 34  1 -35 33 11  + 800.5847
29 22  8  +174 41 35 -33 15 21  + 849.5548
29 22  9  +177 36  5 -30 54 16  + 899.3084
29 22 10  -179 40 59 -28 30 46  + 949.6513
29 22 11  -177  8 17 -26  5 34  +1000.3951
29 22 12  -174 44 34 -23 39 18  +1051.3559
29 22 13  -172 28 46 -21 12 26  +1102.3576
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29 22 15  -168 16 49 -16 18 37  +1203.8043
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29 22 17  -164 25 35 -11 26 43  +1303.4495
29 22 18  -162 35 58 - 9  2  5  +1352.2250
29 22 19  -160 49 32 - 6 38 35  +1400.1186
29 22 20  -159  5 43 - 4 16 20  +1447.0014
29 22 21  -157 24  0 - 1 55 28  +1492.7503

29 22 21 49 -156  1 11 P  861   +1529.5778

29 22 22  -155 43 57 + 0 23 55  +1537.2508
29 22 23  -154  5  5 + 2 41 43  +1580.3943
29 22 24  -152 27  1 + 4 57 52  +1622.0781
29 22 25  -150 49 20 + 7 12 18  +1662.2062
29 22 26  -149 11 40 + 9 24 56  +1700.6902
29 22 27  -147 33 37 +11 35 44  +1737.4456
29 22 28  -145 54 49 +13 44 37  +1772.3950
29 22 29  -144 14 55 +15 51 32  +1805.4656
29 22 30  -142 33 30 +17 56 25  +1836.5908
29 22 31  -140 50 14 +19 59 11  +1865.7097
29 22 32  -139  4 44 +21 59 46  +1892.7645
29 22 33  -137 16 35 +23 58  5  +1917.7043
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29 22 35  -133 30 43 +27 47 28  +1961.0551
29 22 36  -131 32 10 +29 38 17  +1979.3854
29 22 37  -129 29 16 +31 26 20  +1995.4390
29 22 38  -127 21 35 +33 11 26  +2009.1864
29 22 39  -125  8 36 +34 53 23  +2020.6027
29 22 40  -122 49 53 +36 31 58  +2029.6660
 PALOTO 33  29 22 40 16.085
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29 22 41  -120 24 57 +38  6 56  +2036.3587
 2TEMPL 25  29 22 41 55.292
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29 22 42  -117 53 18 +39 37 59  +2040.6671
 NELCAL 42  29 22 42 20.670
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 2NOTSS 20  29 22 42  7.157
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29 22 43  -115 14 31 +41  4 49  +2042.5823
29 22 44  -112 28 10 +42 27  5  +2042.0972
29 22 45  -109 33 53 +43 44 24  +2039.2106
 2WHITE 29  29 22 45 55.480
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29 22 46  -106 31 25 +44 56 19  +2033.9238
29 22 47  -103 20 35 +46  2 26  +2026.2427
29 22 48  -100  1 20 +47  2 15  +2016.1772
29 22 49  - 96 33 51 +47 55 17  +2003.7405
29 22 50  - 92 58 25 +48 41  3  +1988.9513
 2COLNS 26  29 22 50 22.448
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29 22 51  - 89 15 39 +49 19  4  +1971.8306
 2RSTON 27  29 22 51 40.479
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29 22 52  - 85 26 17 +49 48 50  +1952.4051
29 22 53  - 81 31 25 +50  9 59  +1930.7061
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 BPOINT 49  29 22 54  6.240
              +44.7935  2430.5738    N
 BELVOR 36  29 22 54  5.663
              +44.0092  2409.6822    N
 ABDEEN 35  29 22 54 21.483
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 2FTMON 30  29 22 54 51.806
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29 22 55  - 73 30  9 +50 24 54  +1880.6323
29 22 56  - 69 26 45 +50 18 12  +1852.3440
 2VANBU 31  29 22 56 21.042
              +13.3419  1881.2017    S
 2THULE 22  29 22 56  9.918
              -74.6620  3776.0797    S
29 22 57  - 65 23 36 +50  1 51  +1821.9530
29 22 58  - 61 22 15 +49 35 50  +1789.5158
29 22 59  - 57 24  9 +49  0 14  +1755.0934
29 23  0  - 53 30 39 +48 15 13  +1718.7542
29 23  1  - 49 42 47 +47 20 59  +1680.5719
29 23  2  - 46  1 29 +46 17 51  +1640.6264
29 23  3  - 42 27 20 +45  6  8  +1599.0049
29 23  4  - 39  0 43 +43 46 12  +1555.8017
29 23  5  - 35 41 51 +42 18 25  +1511.1178
29 23  6  - 32 30 43 +40 43 10  +1465.0622
29 23  7  - 29 27  9 +39  0 49  +1417.7518
 2AZORS 21  29 23 7  47.825
              - 6.6586  1386.8324    S
29 23  8  - 26 30 51 +37 11 44  +1369.3117
29 23  9  - 23 41 29 +35 16 15  +1319.8751
29 23 10  - 20 58 32 +33 14 42  +1269.5831
29 23 11  - 18 21 35 +31  7 21  +1218.5866
29 23 12  - 15 50  1 +28 54 31  +1167.0445
29 23 13  - 13 23 18 +26 36 28  +1115.1237
29 23 14  - 11  0 54 +24 13 26  +1063.0001
29 23 15  -  8 42 11 +21 45 41  +1010.8588
29 23 16  -  6 26 36 +19 13 27  + 958.8913
29 23 17  -  4 13 33 +16 36 57  + 907.2971
29 23 18  -  2  2 28 +13 56 27  + 856.2827
29 23 19  +  0  7 16 +11 12 11  + 806.0602
29 23 20  +  2 16 16 + 8 24 25  + 756.8462
29 23 21  +  4 25  9 + 5 33 26  + 708.8622
29 23 22  +  6 34 33 + 2 39 31  + 662.3310
29 23 23  +  8 45  9 - 0 16 58  + 617.4764
29 23 24  + 10 57 41 - 3 15 40  + 574.5208
29 23 25  + 13 12 54 - 6 16 10  + 533.6842
29 23 26  + 15 31 37 - 9 18  2  + 495.1811
29 23 27  + 17 54 42 -12 20 42  + 459.2185
29 23 28  + 20 23  9 -15 23 38  + 425.9950
29 23 29  + 22 57 59 -18 26 10  + 395.6961
29 23 30  + 25 40 23 -21 27 34  + 368.4939
 JOBURG 39  29 23 30 53.750
              +33.0187   407.3066    S
29 23 31  + 28 31 39 -24 26 59  + 344.5441
29 23 32  + 31 33  7 -27 23 30  + 323.9845
29 23 33  + 34 46 19 -30 16  3  + 306.9332
29 23 34  + 38 12 49 -33  3 28  + 293.4866
29 23 35  + 41 54 18 -35 44 23  + 283.7187
29 23 36  + 45 52 20 -38 17 21  + 277.6801
29 23 37  + 50  8 28 -40 40 41  + 275.3971
29 23 38  + 54 43 51 -42 52 39  + 276.8728
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29 23 45  + 94 40 11 -50 27  0  + 387.8833
29 23 46  +100 46 20 -50 10 47  + 416.8647
29 23 47  +106 42 14 -49 34 30  + 448.6852
29 23 48  +112 23 21 -48 39 36  + 483.1655
29 23 49  +117 46 24 -47 27 56  + 520.1176
29 23 50  +122 49 27 -46  1 28  + 559.3469
29 23 51  +127 31 49 -44 22 17  + 600.6534
29 23 52  +131 53 39 -42 32 19  + 643.8338
29 23 53  +135 55 56 -40 33 25  + 688.6833
29 23 54  +139 39 55 -38 27 11  + 734.9966
29 23 55  +143  7 11 -36 15  5  + 782.5688
29 23 56  +146 19 18 -33 58 21  + 831.1974
29 23 57  +149 17 51 -31 38  3  + 880.6834
29 23 58  +152  4 22 -29 15  5  + 930.8314
29 23 59  +154 40 13 -26 50 12  + 981.4502
30  0  0  +157  6 42 -24 24  4  +1032.3544
30  0  1  +159 24 58 -21 57 12  +1083.3645
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30  0  4  +165 40 19 -14 36 22  +1235.3305
30  0  5  +167 35  5 -12 10 24  +1285.0979
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30  0  7  +171 13 21 - 7 21 20  +1382.4141
30  0  8  +172 58  0 - 4 58 34  +1429.6928
30  0  9  +174 40 24 - 2 37  9  +1475.8822
30  0 10  +176 20 60 - 0 17 12  +1520.8653

30  0 10  7 +176 33 16 P  862   +1526.2662

30  0 11  +178  0 17 + 2  1 12  +1564.5310
30  0 12  +179 38 37 + 4 17 57  +1606.7738
30  0 13  -178 43 32 + 6 33  0  +1647.4959
30  0 14  -177  5 49 + 8 46 17  +1686.6057
30  0 15  -175 27 50 +10 57 43  +1724.0176
30  0 16  -173 49 12 +13  7 16  +1759.6509
30  0 17  -172  9 35 +15 14 50  +1793.4310
30  0 18  -170 28 34 +17 20 24  +1825.2907
30  0 19  -168 45 49 +19 23 52  +1855.1646
30  0 20  -167  0 56 +21 25 10  +1882.9957
30  0 21  -165 13 31 +23 24 12  +1908.7298
30  0 22  -163 23 11 +25 20 54  +1932.3177
30  0 23  -161 29 30 +27 15  7  +1953.7158
30  0 24  -159 32  4 +29  6 45  +1972.8847
30  0 25  -157 30 24 +30 55 39  +1989.7882
30  0 26  -155 24  5 +32 41 39  +2004.3957
30  0 27  -153 12 39 +34 24 33  +2016.6806
30  0 28  -150 55 36 +36  4  8  +2026.6195
30  0 29  -148 32 27 +37 40 11  +2034.1934
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30  0 30  -146  2 46 +39 12 24  +2039.3874
30  0 31  -143 26  1 +40 40 28  +2042.1901
30  0 32  -140 41 53 +42  4  5  +2042.5949
30  0 33  -137 49 55 +43 22 50  +2040.5972
30  0 34  -134 49 48 +44 36 21  +2036.1984
30  0 35  -131 41 24 +45 44  9  +2029.4019
30  0 36  -128 24 35 +46 45 49  +2020.2166
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 PALOTO 33  30 0  37 47.330
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30  0 38  -121 26 20 +48 28 43  +1994.7325
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30  0 39  -117 45 40 +49  8 59  +1978.4698
 NELCAL 42  30 0  39 12.282
                 +55.8673  2893.1550     N
 2GOLDS 24  30 0  39 14.260
                 +49.0406  2642.0981     N
 2NOTSS 20  30 0  39  2.889
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30  0 40  -113 58 12 +49 41  9  +1959.8924
30  0 41  -110  4 53 +50  4 48  +1939.0284
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30  0 43  -102  5 39 +50 25  4  +1890.5822
30  0 44  - 98  2 37 +50 21  7  +1863.0819
30  0 45  - 93 59 23 +50  7 34  +1833.4599
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30  0 46  - 89 57 30 +49 44 22  +1801.7698
 2RSTON 27  30 0  46 49.341
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30  0 47  - 85 58 29 +49 11 34  +1768.0718
30  0 48  - 82  3 41 +48 29 18  +1732.4308
 FTSTEW 48  30 0  48  8.360
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 CPCAN1 34  30 0  48 22.368
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 2AFMTC 28  30 0  48 22.368
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30  0 49  - 78 14 14 +47 37 46  +1694.9183
 BPOINT 49  30 0  49 17.904
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 BELVOR 36  30 0  49 17.327
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 ABDEEN 35  30 0  49 34.301
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30  0 50  - 74 31  8 +46 37 16  +1656.6127
 2FTMON 30  30 0  50  7.754
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30  0 51  - 70 55  0 +45 28  4  +1614.5981
 2VANBU 31  30 0  51 49.844
                 -13.8824  1616.9827     S
 2THULE 22  30 0  51 36.578
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30  0 54  - 60 52  6 +41 12  8  +1482.2515
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30  0 59  - 46 33 48 +31 46 13  +1237.5179
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30  1  2  - 39  9 22 +24 57 20  +1082.2892
30  1  3  - 36 49 43 +22 31  8  +1030.1336
30  1  4  - 34 33 23 +20  0 22  + 978.0807
30  1  5  - 32 19 45 +17 25 17  + 926.3269
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30  1 17  -  5 17 20 -17 28 49  + 406.5945
30  1 18  -  2 37 33 -20 30 34  + 378.2299
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30  1 22  +  9 40  5 -32 11  8  + 298.0825
30  1 23  + 13 16 35 -34 54 14  + 286.9453
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30  1 31  + 52 58 46 -49 43 15  + 331.5050
30  1 32  + 59  6 38 -50 16 13  + 353.1009
30  1 33  + 65 17 46 -50 27 47  + 377.9152
30  1 34  + 71 26 11 -50 18  7  + 405.7973
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30  1 37  + 88 41 39 -47 52  2  + 506.1509
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30  1 39  + 98 40 19 -44 54 25  + 585.1150
30  1 40  +103  8 41 -43  7 31  + 627.6237
30  1 41  +107 17  7 -41 11  7  + 671.8778
30  1 42  +111  6 48 -39  6 53  + 717.6721
30  1 43  +114 39 15 -36 56 21  + 764.8018
30  1 44  +117 56  2 -34 40 48  + 813.0632
30  1 45  +120 58 46 -32 21 22  + 862.2563
30  1 46  +123 48 59 -29 58 60  + 912.1833
30  1 47  +126 28  6 -27 34 30  + 962.6521
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30  2  0  +151 44 24 + 3 38  7  +1591.3465
30  2  1  +153 22 27 + 5 53 47  +1632.6467
30  2  2  +155  0 15 + 8  7 41  +1672.3675
30  2  3  +156 38 12 +10 19 46  +1710.4209
30  2  4  +158 16 41 +12 29 57  +1746.7244
30  2  5  +159 56  4 +14 38 12  +1781.2016
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30  2  7  +163 18 60 +18 48 35  +1844.3999
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30  2 23  -160  1  4 +45 25 32  +2032.2188
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30  2 25  -153 23 57 +47 25 54  +2013.2207
30  2 26  -149 53  6 +48 15 51  +2000.1632
 2ALSKA 23  30 2  26 33.704
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30  2 27  -146 14 35 +48 58 19  +1984.7576
30  2 28  -142 29  2 +49 32 50  +1967.0263
30  2 29  -138 37 23 +49 58 57  +1946.9980
30  2 30  -134 40 43 +50 16 15  +1924.7042
30  2 31  -130 40 22 +50 24 26  +1900.1811
30  2 32  -126 37 49 +50 23 13  +1873.4712
30  2 33  -122 34 36 +50 12 27  +1844.6205
 PALOTO 33  30 2  33  5.586
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30  2 34  -118 32 20 +49 52  2  +1813.6820
 NELCAL 42  30 2  34 23.040
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 2TEMPL 25  30 2  34  6.478
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 2GOLDS 24  30 2  34 24.770
                 +52.3283  2539.7006     S
 2NOTSS 20  30 2  34 14.223
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30  2 35  -114 32 31 +49 22  0  +1780.7126
30  2 36  -110 36 32 +48 42 28  +1745.7753
30  2 37  -106 45 37 +47 53 38  +1708.9397
 2WHITE 29  30 2  37  0.007
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30  2 38  -103  0 45 +46 55 44  +1670.2814
30  2 39  - 99 22 43 +45 49  5  +1629.8822
30  2 40  - 95 51 60 +44 34  2  +1587.8314
30  2 41  - 92 28 57 +43 10 57  +1544.2251
 2COLNS 26  30 2  41 16.016
                 + 3.8500  1535.0592     S
30  2 42  - 89 13 36 +41 40 12  +1499.1659
 2RSTON 27  30 2  42 48.548
                 +28.4951  1619.5656     S
30  2 43  - 86  5 56 +40  2 10  +1452.7658
30  2 44  - 83  5 43 +38 17 13  +1405.1435
 FTSTEW 48  30 2  44 32.616
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 CPCAN1 34  30 2  44 51.403
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```

```
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30  2 46  - 77 26 13 +34 27 56  +1306.7491
 BPOINT 49  30 2  46  7.456
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 BELVOR 36  30 2  46  6.384
                 -24.9830  1410.1500     S
 ABDEEN 35  30 2  46 29.950
                 -32.9546  1476.8738     S
30  2 47  - 74 46  4 +32 24 14  +1256.2565
 2FTMON 30  30 2  47 16.752
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30  2 48  - 72 11 38 +30 14 54  +1205.1008
30  2 49  - 69 42 23 +28  0 12  +1153.4431
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30  2 52  - 62 40  1 +20 46 28  + 997.1975
 PANTIG 41  30 2  52 23.270
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30  3 24  + 54  0 27 -49 16  1  + 457.4493
30  3 25  + 59 35 33 -48 14 31  + 492.5872
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30  3 29  + 78 36 55 -41 47 53  + 655.3798
30  3 30  + 82 32 26 -39 45 47  + 700.6299
30  3 31  + 86 10 12 -37 36 58  + 747.2919
30  3 32  + 89 31 47 -35 22 41  + 795.1608
30  3 33  + 92 38 48 -33  4 12  + 844.0350
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30   3 35   + 98 15 21 -28 18 26   + 944.0099
30   3 36   +100 47 42 -25 52 43   + 994.7263
30   3 37   +103 11  5 -23 25 57   +1045.6819
30   3 38   +105 26 40 -20 58 39   +1096.6983
30   3 39   +107 35 25 -18 31 13   +1147.6036
30   3 40   +109 38 16 -16  4  1   +1198.2328
30   3 41   +111 35 59 -13 37 21   +1248.4275
30   3 42   +113 29 18 -11 11 27   +1298.0364
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30   3 45   +118 49 16 - 4  0 15   +1441.9419
30   3 46   +120 31  4 - 1 39 10   +1487.8361

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30   3 47   +122 11 17 + 0 40 23   +1532.4938
30   3 48   +123 50 18 + 2 58 21   +1575.8050
30   3 49   +125 28 35 + 5 14 38   +1617.6672
30   3 50   +127  6 30 + 7 29  9   +1657.9837
30   3 51   +128 44 28 + 9 41 52   +1696.6639
30   3 52   +130 22 50 +11 52 43   +1733.6239
30   3 53   +132  1 60 +14  1 37   +1768.7844
30   3 54   +133 42 20 +16  8 31   +1802.0735
30   3 55   +135 24 10 +18 13 21   +1833.4226
30   3 56   +137  7 57 +20 16  3   +1862.7703
30   3 57   +138 53 59 +22 16 31   +1890.0592
30   3 58   +140 42 45 +24 14 41   +1915.2370
30   3 59   +142 34 35 +26 10 26   +1938.2556
30   4  0   +144 29 56 +28  3 39   +1959.0730
 GUAMIS 37   30 4  0  10.409
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30   4  9   +165 41 16 +42 38 59   +2042.3736
30   4 10   +168 36 43 +43 55 30   +2039.7367
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30   4 14   -178 18 43 +48  2 30   +2005.2483
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30   4 19   -159 14 16 +50 23  3   +1909.4319
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30   4 28   -124 17 43 +44 56 36   +1603.3966
 PALOTO 33   30 4  28 36.448
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30   4 30   -117 35 12 +42  7 24   +1515.8024
 NELCAL 42   30 4  30 11.123
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30 21  0   + 34  5 17 + 7 10 26   + 771.4607
30 21  1   + 36 12 56 + 4 19 48   + 723.1326
30 21  2   + 38 21 26 + 1 26 23   + 676.1933
30 21  3   + 40 31 27 - 1 29 29   + 630.8658
30 21  4   + 42 43 43 - 4 27 27   + 587.3714
30 21  5   + 44 58 60 - 7 27  6   + 545.9303
30 21  6   + 47 18  8 -10 27 58   + 506.7583
30 21  7   + 49 42  2 -13 29 33   + 470.0626
30 21  8   + 52 11 40 -16 31 15   + 436.0438
30 21  9   + 54 48  9 -19 32 23   + 404.8905
30 21 10   + 57 32 39 -22 32 14   + 376.7772
30 21 11   + 60 26 32 -25 29 55   + 351.8644
30 21 12   + 63 31 11 -28 24 29   + 330.2945
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30 21 15   + 74  5 39 -36 37 50   + 286.7705
30 21 16   + 78  9 28 -39  7 32   + 279.5924
30 21 17   + 82 31 58 -41 27  9   + 276.1553
30 21 18   + 87 14 14 -43 34 50   + 276.4702
30 21 19   + 92 16 46 -45 28 39   + 280.5243
30 21 20   + 97 39  7 -47  6 36   + 288.2804
30 21 21   +103 19 42 -48 26 49   + 299.6799
30 21 22   +109 15 35 -49 27 37   + 314.6433
30 21 23   +115 22 26 -50  7 44   + 333.0697
30 21 24   +121 34 49 -50 26 24   + 354.8405
30 21 25   +127 46 40 -50 23 31   + 379.8203
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30 21 30   +155 37 37 -45 23 11   + 547.1580
30 21 31   +160 14  7 -43 38 30   + 587.8319
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30 21 36   +178 36 15 -32 54 22   + 816.2552
30 21 37   -178 28 56 -30 31 11   + 865.5229
30 21 38   -175 45 42 -28  5 38   + 915.5173
30 21 39   -173 12 42 -25 38 26   + 966.0462
30 21 40   -170 48 40 -23 10 12   +1016.9215
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30 21 47   -156 50  3 - 5 57 53   +1368.2607
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30 21 49 30 -152 31 11 P  874     +1485.7774

30 21 50   -151 42  1 + 1  8 13   +1507.8968
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30 21 59  -136 36 13 +20 48 30  +1847.1441
30 22  0  -134 48 47 +22 49  2  +1875.6067
30 22  1  -132 58 34 +24 47 10  +1901.9821
30 22  2  -131  5 10 +26 42 46  +1926.2198
30 22  3  -129  8  8 +28 35 44  +1948.2746
30 22  4  -127  7  6 +30 25 55  +1968.1055
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30 22  6  -122 50 60 +33 57 17  +2000.9519
 PALOTO 33  30 22 6  17.819
                -12.1451  2039.7082    N
30 22  7  -120 35  2 +35 38  4  +2013.9076
30 22  8  -118 13 10 +37 15 18  +2024.5178
 NELCAL 42  30 22 8  30.314
                +21.8852  2145.3992    N
 2TEMPL 25  30 22 8   3.123
                +13.2512  2066.6705    N
 2GOLDS 24  30 22 8  33.198
                +10.9907  2057.9676    N
 2NOTSS 20  30 22 8  15.977
                + 8.2493  2042.9938    N
30 22  9  -115 44 56 +38 48 43  +2032.7623
30 22 10  -113  9 52 +40 18  1  +2038.6259
30 22 11  -110 27 35 +41 42 52  +2042.0958
30 22 12  -107 37 38 +43  2 56  +2043.1637
 2WHITE 29  30 22 12 17.896
                +36.4545  2389.7787    N
30 22 13  -104 39 45 +44 17 48  +2041.8260
30 22 14  -101 33 44 +45 27  3  +2038.0809
30 22 15  - 98 19 28 +46 30 15  +2031.9328
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30 22 17  - 91 26 35 +48 16 37  +2012.4602
30 22 18  - 87 48 39 +48 58 50  +1999.1628
 2RSTON 27  30 22 18 18.138
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30 22 19  - 84  3 53 +49 33  7  +1983.5155
 FTSTEW 48  30 22 19 39.876
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 CPCAN1 34  30 22 19 53.719
                +65.9423  3375.2952    N
 2AFMTC 28  30 22 19 53.801
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30 22 20  - 80 13 10 +49 59  3  +1965.5427
 BPOINT 49  30 22 20 47.607
                +43.7748  2456.8861    N
 BELVOR 36  30 22 20 47.030
                +42.9836  2436.2576    N
30 22 21  - 76 17 37 +50 16 15  +1945.2723
 ABDEEN 35  30 22 21  3.015
                +40.9370  2378.4165    N
 2FTMON 30  30 22 21 33.832
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30 22 22  - 72 18 32 +50 24 23  +1922.7373
 2THULE 22  30 22 22 52.686
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30 22 23  - 68 17 22 +50 23 13  +1897.9758
 2VANBU 31  30 22 23  4.057
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30 22 27  - 52 22 29 +48 43 56  +1777.5865
30 22 28  - 48 33 10 +47 55 48  +1742.4325
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30 22 30  - 41 13 22 +45 53  6  +1666.5284
30 22 31  - 37 44  7 +44 39 11  +1625.9378
30 22 32  - 34 22 24 +43 17 22  +1583.7059
30 22 33  - 31  8 21 +41 48  2  +1539.9300
30 22 34  - 28  1 53 +40 11 32  +1494.7150
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                + 4.8188  1484.7026    S
30 22 35  - 25  2 47 +38 28 13  +1448.1723
30 22 36  - 22 10 46 +36 38 27  +1400.4230
30 22 37  - 19 25 23 +34 42 32  +1351.5948
30 22 38  - 16 46 12 +32 40 47  +1301.8246
30 22 39  - 14 12 42 +30 33 29  +1251.2576
30 22 40  - 11 44 22 +28 20 54  +1200.0469
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30 22 42  -  7  0 59 +23 40 50  +1096.3529
30 22 43  -  4 44 47 +21 13 50  +1044.2190
30 22 44  -  2 31 31 +18 42 29  + 992.1411
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30 22 46  +  1 48 35 +13 27 38  + 888.9374
30 22 47  +  3 56 32 +10 44 34  + 838.2217
30 22 48  +  6  3 56 + 7 58  5  + 788.3799
30 22 49  +  8 11 20 + 5  8 27  + 739.6292
30 22 50  + 10 19 24 + 2 15 56  + 692.1906
30 22 51  + 12 28 49 - 0 39  9  + 646.2872
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30 22 53  + 16 54 30 - 6 35 31  + 559.9736
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30 22 57  + 26 36 45 -18 40 12  + 415.3179
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30 23  7  + 63 21 13 -44 57  6  + 278.7407
30 23  8  + 68 37 58 -46 39 53  + 285.2235
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30 23 11  + 86  9 46 -49 58 17  + 326.3553
30 23 12  + 92 21 17 -50 23 13  + 346.9841
30 23 13  + 98 34  5 -50 26 33  + 370.8702
30 23 14  +104 41 59 -50  8 38  + 397.8681
30 23 15  +110 39 24 -49 30 28  + 427.8188
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30 23 17  +121 45 33 -47 19 42  + 495.8814
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30 23 24  +150 19 22 -33 34 10  + 799.4744
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30 23 30  +165 36 31 -18 53 42  +1101.4275
30 23 31  +167 41 39 -16 24 54  +1152.3600
30 23 32  +169 41 25 -13 56 35  +1203.0042
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30 23 35  +175 15 57 - 6 37  5  +1351.6568
30 23 36  +177  1 16 - 4 13  1  +1399.6332
30 23 37  +178 44 24 - 1 50 24  +1446.6003

30 23 37 46 -179 56 18 P  875   +1482.4297

30 23 38  -179 34 10 + 0 30 39  +1492.4343
30 23 39  -177 54  0 + 2 50  2  +1537.0189
30 23 40  -176 14 38 + 5  7 40  +1580.2454
30 23 41  -174 35 42 + 7 23 30  +1622.0100
30 23 42  -172 56 46 + 9 37 26  +1662.2169
30 23 43  -171 17 28 +11 49 25  +1700.7758
30 23 44  -169 37 24 +13 59 24  +1737.6019
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30 23 57  -143 48 48 +38 25  1  +2030.2416
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1  0  1  -132 51 20 +43 59  2  +2042.5900
1  0  2  -129 47 26 +45  9 46  +2039.6681
1  0  3  -126 35 19 +46 14 34  +2034.3410
1  0  4  -123 14 59 +47 12 58  +2026.6147
PALOTO 33  1  0  4  18.480
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1  0  5  -119 46 38 +48  4 29  +2016.4990
NELCAL 42  1  0  5  46.563
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2TEMPL 25  1  0  5  28.189
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2NOTSS 20  1  0  5  36.840
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1  0  6  -116 10 38 +48 48 40  +2004.0085
1  0  7  -112 27 37 +49 25  2  +1989.1609
1  0  8  -108 38 26 +49 53 10  +1971.9784
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1  0  9  -104 44  6 +50 12 38  +1952.4884
1  0 10  -100 45 55 +50 23  9  +1930.7215
1  0 11  - 96 45 16 +50 24 26  +1906.7143
1  0 12  - 92 43 42 +50 16 18  +1880.5075
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1  0 13  - 88 42 44 +49 58 40  +1852.1467
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1  0 14  - 84 43 55 +49 31 33  +1821.6833
FTSTEW 48  1  0  14 49.068
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1  0 15  - 80 48 36 +48 55  3  +1789.1734
BPOINT 49  1  0  15 57.788
                +40.0143  2139.4459     S
BELVOR 36  1  0  15 57.046
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CPCAN1 34  1  0  15  2.911
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1  0 16  - 76 58  1 +48  9 20  +1754.6799
ABDEEN 35  1  0  16 13.773
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1  0 18  - 69 35  3 +46 11 16  +1680.0199
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2THULE 22  1  0  18 13.496
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1  0 31  - 32 47 16 +21 54 48  +1062.0433
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1  0 33  - 28 22  1 +16 50 33  + 957.9933
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1  0 54  + 29 37 16 -42 22 24  + 275.9246
1  0 55  + 34 28  4 -44 24 30  + 277.4076
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1  0 59  + 56 58 27 -49 47  8  + 320.0844
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1  1  2  + 75 31 55 -50 15 54  + 388.2903
1  1  3  + 81 33  2 -49 43 23  + 417.2446
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1  1  8  +107 16 22 -42 50  2  + 600.9533
1  1  9  +111 24 20 -40 51  4  + 644.1347
1  1 10  +115 13 31 -38 44 21  + 688.9920
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1  1 12  +122  1 45 -34 13 27  + 782.9138
1  1 13  +125  4  2 -31 51 43  + 831.5709
1  1 14  +127 53 55 -29 27  8  + 881.0912
1  1 15  +130 32 46 -27  0 30  + 931.2787
1  1 16  +133  1 57 -24 32 29  + 981.9423
1  1 17  +135 22 39 -22  3 41  +1032.8958
OOMERA 40  1  1  17 37.104
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1  1 18  +137 35 57 -19 34 34  +1083.9585
1  1 19  +139 42 48 -17  5 32  +1134.9562
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1  1 21  +143 40 35 -12  9  0  +1236.0941
1  1 22  +145 32 59 - 9 42  1  +1285.9192
1  1 23  +147 21 58 - 7 16  9  +1335.0504
1  1 24  +149  8  4 - 4 51 35  +1383.3480
1  1 25  +150 51 50 - 2 28 26  +1430.6791
1  1 26  +152 33 47 - 0  6 50  +1476.9191
```

```
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1  1 29  +157 33  5 + 6 47 47  +1607.9359
1  1 30  +159 12  5 + 9  2 20  +1648.6896
1  1 31  +160 51 19 +11 14 57  +1687.8254
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1  1 33  +164 12 11 +15 34  5  +1760.9031
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WAKEIS 38  1  1  34 23.754
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1  1 36  +169 24 53 +21 46 35  +1856.4147
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1  1 40  +176 59 49 +29 29 21  +1954.8585
1  1 41  +179  3  7 +31 18 13  +1973.9813
1  1 42  -178 48 53 +33  4  2  +1990.8319
1  1 43  -176 35 41 +34 46 38  +2005.3793
1  1 44  -174 16 50 +36 25 47  +2017.5961
1  1 45  -171 51 52 +38  1 14  +2027.4602
1  1 46  -169 20 19 +39 32 42  +2034.9523
1  1 47  -166 41 44 +40 59 54  +2040.0581
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1  1 49  -161  1 58 +43 40  4  +2043.0706
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1  1 57  -133  9 44 +50  8 29  +1959.3963
1  1 58  -129 12 30 +50 21 19  +1938.3969
1  1 59  -125 12 28 +50 24 59  +1915.1445
PALOTO 33  1  1  59 44.811
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1  2  3  -109 14 24 +49  5 26  +1800.4592
2WHITE 29  1  2  3  38.243
                +54.3813  2582.0717     S
1  2  4  -105 22 39 +48 22  7  +1766.6296
1  2  5  -101 36 26 +47 29 47  +1730.8606
1  2  6  - 97 56 36 +46 28 42  +1693.2242
1  2  7  - 94 23 49 +45 19 12  +1653.7991
2COLNS 26  1  2  7  48.896
                +10.9213  1644.0684     S
1  2  8  - 90 58 25 +44  1 38  +1612.6716
```

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1  2  9  - 87 40 40 +42 36 23  +1569.9328
2RSTON 27  1  2  9  18.627
                +34.5955  1809.2953     S
1  2 10  - 84 30 31 +41  3 47  +1525.6835
FTSTEW 48  1  2  10 58.905
                +35.6557  1741.2043     S
1  2 11  - 81 27 50 +39 24 14  +1480.0297
CPCAN1 34  1  2  11 17.197
                +47.4126  1967.3275     S
2AFMTC 28  1  2  11 17.197
                +46.8052  1951.8942     S
1  2 12  - 78 32 25 +37 38  4  +1433.0867
BPOINT 49  1  2  12 30.366
                - 9.5378  1424.9223     S
BELVOR 36  1  2  12 29.459
                -10.8326  1430.4057     S
ABDEEN 35  1  2  12 52.283
                -18.8521  1454.9491     S
1  2 13  - 75 43 50 +35 45 36  +1384.9775
2FTMON 30  1  2  13 37.272
                -30.3051  1524.3729     S
1  2 14  - 73  1 42 +33 47 10  +1335.8326
1  2 15  - 70 25 30 +31 43  4  +1285.7919
2VANBU 31  1  2  15 57.431
                -68.9101  2455.6241     S
1  2 16  - 67 54 43 +29 33 33  +1235.0030
1  2 17  - 65 28 51 +27 16 52  +1183.6221
1  2 18  - 63  7 20 +24 59 18  +1131.8143
PANTIG 41  1  2  18 34.645
                +38.4410  1346.3089     S
1  2 19  - 60 49 35 +22 35  2  +1079.7527
1  2 20  - 58 35  4 +20  6 19  +1027.6197
1  2 21  - 56 23 10 +17 33 22  + 975.6045
1  2 22  - 54 13 22 +14 56 24  + 923.9036
1  2 23  - 52  5  4 +12 15 38  + 872.7208
1  2 24  - 49 57 40 + 9 31 18  + 822.2665
1  2 25  - 47 50 35 + 6 43 40  + 772.7552
1  2 26  - 45 43 12 + 3 53  0  + 724.4057
1  2 27  - 43 34 51 + 0 59 36  + 677.4400
1  2 28  - 41 24 52 - 1 56 13  + 632.0800
1  2 29  - 39 12 31 - 4 54  5  + 588.5480
1  2 30  - 36 57  2 - 7 53 35  + 547.0635
1  2 31  - 34 37 32 -10 54 15  + 507.8411
1  2 32  - 32 13 10 -13 55 33  + 471.0897
1  2 33  - 29 42 53 -16 56 55  + 437.0088
1  2 34  - 27  5 37 -19 57 39  + 405.7867
1  2 35  - 24 20  7 -22 57  0  + 377.5989
1  2 36  - 21 25  4 -25 54  7  + 352.6055
1  2 37  - 18 19  2 -28 47 60  + 330.9494
1  2 38  - 15  0 26 -31 37 33  + 312.7545
1  2 39  - 11 27 38 -34 21 30  + 298.1231
1  2 40  -  7 38 58 -36 58 29  + 287.1372
1  2 41  -  3 32 49 -39 26 53  + 279.8552
1  2 42  +  0 52 14 -41 44 59  + 276.3120
1  2 43  +  5 37 14 -43 50 56  + 276.5182
1  2 44  + 10 42 33 -45 42 46  + 280.4623
1  2 45  + 16  7 37 -47 18 29  + 288.1080
1  2 46  + 21 50 41 -48 36 13  + 299.3983
1  2 47  + 27 48 37 -49 34 19  + 314.2537
1  2 48  + 33 56 56 -50 11 34  + 332.5747
1  2 49  + 40 10  3 -50 27 17  + 354.2434
1  2 50  + 46 21 48 -50 21 26  + 379.1250
1  2 51  + 52 26 14 -49 54 39  + 407.0695
```

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1  2 52   + 58 17 [illegible] -49  8 10   + 437.9144
1  2 53   + 63 53  5 -48  3 38   + 471.4844
1  2 54   + 69  8 46 -46 43  1   + 507.5953
1  2 55   + 74  3 44 -45  8 24   + 546.0564
1  2 56   + 78 37 45 -43 21 51   + 586.6693
1  2 57   + 82 51 25 -41 25 17   + 629.2328
1  2 58   + 86 45 55 -39 20 28   + 673.5426
1  2 59   + 90 22 41 -37  8 59   + 719.3936
1  3  0   + 93 43 21 -34 52 13   + 766.5805
1  3  1   + 96 49 34 -32 31 19   + 814.8995
1  3  2   + 99 42 53 -30  7 18   + 864.1505
1  3  3   +102 24 48 -27 41  2   + 914.1354
1  3  4   +104 56 41 -25 13 12   + 964.6615
1  3  5   +107 19 44 -22 44 26   +1015.5401
1  3  6   +109 35  5 -20 15 13   +1066.5892
1  3  7   +111 43 44 -17 45 59   +1117.6326
1  3  8   +113 46 34 -15 17  5   +1168.5000
1  3  9   +115 44 26 -12 48 48   +1219.0281
1  3 10   +117 37 59 -10 21 24   +1269.0612
1  3 11   +119 27 57 - 7 55  5   +1318.4490
1  3 12   +121 14 52 - 5 30  1   +1367.0503
1  3 13   +122 59 20 - 3  6 21   +1414.7294
1  3 14   +124 41 50 - 0 44 12   +1461.3588

1  3 14 18 +125 13 27 P  877     +1475.5986

1  3 15   +126 22 48 + 1 36 20   +1506.8171
1  3 16   +128  2 45 + 3 55  9   +1550.9904
1  3 17   +129 42  3 + 6 12 10   +1593.7712
1  3 18   +131 21  8 + 8 27 20   +1635.0584
1  3 19   +133  0 22 +10 40 34   +1674.7579
1  3 20   +134 40  9 +12 51 48   +1712.7812
1  3 21   +136 20 52 +15  0 58   +1749.0457
1  3 22   +138  2 53 +17  8  1   +1783.4753
1  3 23   +139 46 34 +19 12 52   +1815.9985
1  3 24   +141 32 20 +21 15 26   +1846.5503
1  3 25   +143 20 33 +23 15 39   +1875.0700
GUAMIS 37   1  3  25 48.660
               +42.6844  2365.7507     N
1  3 26   +145 11 38 +25 13 25   +1901.5023
1  3 27   +147  6  1 +27  8 36   +1925.7970
1  3 28   +149  4  5 +29  1  6   +1947.9082
1  3 29   +151  6 19 +30 50 45   +1967.7946
1  3 30   +153 13 [illegible]
1  3 31   +155 24 60 +34 20 53   +2000.7513
1  3 32   +157 42 25 +36  0 57   +2013.7607
1  3 33   +160  5 49 +37 37 23   +2024.4240
1  3 34   +162 35 42 +39  9 55   +2032.7203
1  3 35   +165 12 28 +40 38 14   +2038.6352
1  3 36   +167 56 34 +42  2  1   +2042.1551
1  3 37   +170 48 21 +43 20 54   +2043.2721
1  3 38   +173 48  6 +44 34 30   +2041.9820
1  3 39   +176 55 60 +45 42 22   +2038.2836
1  3 40   -179 47 53 +46 44  4   +2032.1811
1  3 41   -176 23 39 +47 39  8   +2023.6813
1  3 42   -172 51 35 +48 27  5   +2012.7958
1  3 43   -169 12 11 +49  7 29   +1999.5400
1  3 44   -165 26 10 +49 39 50   +1983.9335
1  3 45   -161 34 30 +50  3 46   +1965.9995
1  3 46   -157 38 19 +50 18 54   +1945.7674
1  3 47   -153 38 56 +50 24 56   +1923.2692
1  3 48   -149 37 55 +50 21 39   +1898.5429
2ALSKA 23   1  3  48 26.405
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               -52.1097  2638.6228     S
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1  3 51   -137 39 53 +49 15  6   +1811.4453
1  3 52   -133 47  1 +48 34 11   +1778.2831
1  3 53   -129 59 28 +47 44 11   +1743.1583
1  3 54   -126 18  4 +46 45 23   +1706.1415
1  3 55   -122 43 34 +45 38  5   +1667.3088
PALOTO 33   1  3  55  8.917
               +35.3695  1940.4140     S
1  3 56   -119 16 [illegible]3 +44 22 39   +1626.7435
NELCAL 42   1  3  56 40.872
               +45.8465  2089.6155     S
2TEMPL 25   1  3  56 20.932
               +42.2149  2019.6442     S
2GOLDS 24   1  3  56 43.015
               +35.8764  1876.1998     S
2NOTSS 20   1  3  56 30.078
               +36.0142  1888.9269     S
1  3 57   -115 56 47 +42 59 26   +1584.5357
1  3 58   -112 44 49 +41 28 48   +1540.7828
1  3 59   -109 40 22 +39 51  8   +1495.5890
2WHITE 29   1  3  59 59.285
               +22.8717  1548.0718     S
1  4  0   -106 43 14 +38  6 46   +1449.0664
1  4  1   -103 53  2 +36 16  2   +1401.3356
1  4  2   -101  9 22 +34 19 16   +1352.5245
1  4  3   - 98 31 48 +32 16 45   +1302.7696
1  4  4   - 95 59 47 +30  8 46   +1252.2162
1  4  5   - 93 32 48 +27 55 35   +1201.0174
2COLNS 26   1  4   5 49.227
               -67.2836  2246.0938     S
1  4  6   - 91 10 18 +25 37 25   +1149.3353
1  4  7   - 88 51 44 +23 14 32   +1097.3412
2RSTON 27   1  4   7 58.097
               -64.7776  1953.7257     S
1  4  8   - 86 36 31 +20 47  9   +1045.2133
1  4  9   - 84 24  6 +18 15 28   + 993.1384
HAVANA 47   1  4   9 51.476
               -44.1197  1248.8325     S
1  4 10   - 82 13 55 +15 39 42   + 941.3111
CPCAN1 34   1  4  10 45.281
               -69.8541  1942.8178     S
2AFMIC 26   1  4  10 45.529
               -70.2792  1963.4544     S
1  4 11   - 80  5 24 +13  0  6   + 889.9332
1  4 12   - 77 57 55 +10 16 52   + 839.2127
1  4 13   - 75 50 57 + 7 30 16   + 789.3622
1  4 14   - 73 43 48 + 4 40 32   + 740.5998
1  4 15   - 71 35 54 + 1 47 60   + 693.1456
1  4 16   - 69 26 34 - 1  7  3   + 647.2229
1  4 17   - 67 15  2 - 4  4 15   + 603.0531
1  4 18   - 65  0 37 - 7  3 13   + 560.8567
1  4 19   - 62 42 26 -10  3 29   + 520.8507
1  4 20   - 60 19 39 -13  4 33   + 483.2459
1  4 21   - 57 51 14 -16  5 52   + 448.2448
1  4 22   - 55 16  8 -19  6 45   + 416.0399
1  4 23   - 52 33 11 -22  6 30   + 386.8113
1  4 24   - 49 41  3 -25  4 16   + 360.7238
1  4 25   - 46 38 21 -27 59  6   + 337.9270
1  4 26   - 43 23 33 -30 49 57   + 318.5508
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1  4 28   - 36 11  4 -36 14 40   + 290.4795
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1  4 41   + 34 55 23 -48 23 29   + 459.8385
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1  4 44   + 49 58  1 -43 52 42   + 572.7005
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1  4 51   + 74 16 21 -28 21 12   + 897.1605
1  4 52   + 76 50 60 -25 53 36   + 947.5278
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1  4 54   + 81 33 58 -20 55 37   +1049.3268
1  4 55   + 83 44 29 -18 26 12   +1100.3956
1  4 56   + 85 48 56 -15 57  2   +1151.3457
1  4 57   + 87 48 11 -13 28 26   +1202.0108
1  4 58   + 89 42 57 -11  0 38   +1252.2330
1  4 59   + 91 33 55 - 8 33 52   +1301.8598
1  5  0   + 93 21 42 - 6  8 19   +1350.7472
1  5  1   + 95  6 53 - 3 44  8   +1398.7576
1  5  2   + 96 49 57 - 1 21 26   +1445.7604

1  5  2 34 + 97 48 21 P  878     +1472.1724

1  5  3   + 98 31 23 + 0 59 39   +1491.6322
1  5  4   +100 11 40 + 3 19  3   +1536.2564
1  5  5   +101 51 11 + 5 36 39   +1579.5235
1  5  6   +103 30 22 + 7 52 25   +1621.3300
1  5  7   +105  9 37 +10  6 16   +1661.5794
1  5  8   +106 49 20 +12 18  7   +1700.1820
1  5  9   +108 29 51 +14 27 55   +1737.0524
1  5 10   +110 11 34 +16 35 37   +1772.1124
1  5 11   +111 54 52 +18 41  7   +1805.2890
1  5 12   +113 40  9 +20 44 22   +1836.5151
1  5 13   +115 27 47 +22 45 15   +1865.7290
1  5 14   +117 18 10 +24 43 43   +1892.8729
1  5 15   +119 11 44 +26 39 38   +1917.8950
1  5 16   +121  8 54 +28 32 52   +1940.7481
1  5 17   +123 10  5 +30 23 18   +1961.3896
1  5 18   +125 15 44 +32 10 47   +1979.7812
1  5 19   +127 26 21 +33 55  6   +1995.8890
1  5 20   +129 42 22 +35 36  5   +2009.6830
1  5 21   +132  4 15 +37 13 29   +2021.1383
1  5 22   +134 32 29 +38 47  2   +2030.2330
1  5 23   +137  7 31 +40 16 27   +2036.9499
1  5 24   +139 49 45 +41 41 25   +2041.2755
1  5 25   +142 39 35 +43  1 35   +2043.2005
1  5 26   +145 37 19 +44 16 32   +2042.7185
1  5 27   +148 43  8 +45 25 53   +2039.8282
1  5 28   +151 57 11 +46 29 10   +2034.5309
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```
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1  5 31   +162 27  1 +48 58  3   +2004.2823
1  5 32   +166 11 22 +49 32 28   +1989.4604
1  5 33   +170  1 39 +49 58 33   +1972.3028
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1  5 36   -178  4  4 +50 23 22   +1907.1063
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1  5 38   -170  2 43 +49 53 17   +1852.5789
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1  5 41   -158 22 16 +47 57 51   +1755.1658
1  5 42   -154 39 23 +47  1 20   +1718.7725
1  5 43   -151  3 14 +45 56 14   +1680.5375
2ALSKA 23   1  5  43 55.043
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1  5 44   -147 34 18 +44 42 55   +1640.5415
1  5 45   -144 12 53 +43 21 45   +1598.8719
1  5 46   -140 59  6 +41 53  5   +1555.6240
1  5 47   -137 52 52 +40 17 18   +1510.8998
1  5 48   -134 54  1 +38 34 44   +1464.8083
1  5 49   -132  2 11 +36 45 44   +1417.4678
1  5 50   -129 17  1 +34 50 38   +1369.0031
1  5 51   -126 38  2 +32 49 43   +1319.5485
1  5 52   -124  4 45 +30 43 16   +1269.2459
PALOTO 33   1  5  52 45.682
               -43.7923  1592.9652     S
1  5 53   -121 36 38 +28 31 33   +1218.2463
1  5 54   -119 13  7 +26 14 50   +1166.7090
NELCAL 42   1  5  54 57.601
               -47.2574  1521.6265     S
2TEMPL 25   1  5  54 28.927
               -48.1407  1572.7963     S
2NOTSS 20   1  5  54 42.110
               -55.4663  1747.1880     S
1  5 55   -116 53 42 +23 53 19   +1114.8008
2GOLDS 24   1  5  55  0.814
               -57.3640  1782.9141     S
1  5 56   -114 37 47 +21 27 15   +1062.6990
1  5 57   -112 24 49 +18 56 50   +1010.5870
1  5 58   -110 14 12 +16 22 18   + 958.6569
1  5 59   -108  5 24 +13 43 51   + 907.1085
2WHITE 29   1  5  59 37.567
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1  6  2   -101 43 59 + 5 27 25   + 756.8355
1  6  3   - 99 36 29 + 2 35 45   + 708.9218
1  6  4   - 97 27 42 - 0 18 30   + 662.4643
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1  6  7   - 90 46 36 - 9 13 14   + 534.0465
1  6  8   - 88 25 17 -12 14  2   + 495.6168
1  6  9   - 85 58 37 -15 15 14   + 459.7237
1  6 10   - 83 25 36 -18 16 12   + 426.5628
1  6 11   - 80 45  3 -21 16 16   + 396.3184
1  6 12   - 77 55 43 -24 14 36   + 369.1617
1  6 13   - 74 56 13 -27 10 18   + 345.2465
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1  6 15   - 68 20 36 -32 49 31   + 307.6682
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1  6 43   + 55 45  1 -19  6 13   +1083.2526
1  6 44   + 57 51  9 -16 36 49   +1134.2658
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1  6 48   + 65 28 33 -  6 46 29  +1334.4465
1  6 49   + 67 14 28 -  4 21 48  +1382.7709
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1  6 57   + 80 39  7 +13 54 58   +1724.9295
1  6 58   + 82 20 34 +16  3 18   +1760.6082
1  6 59   + 84  3 31 +18  9 27   +1794.4269
1  7  0   + 85 48 20 +20 13 21   +1826.3168
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1  7  2   + 89 25  8 +24 14  4   +1884.0591
1  7  3   + 91 17 55 +26 10 42   +1909.7992
1  7  4   + 93 14 11 +28  4 41   +1933.3848
1  7  5   + 95 14 24 +29 55 53   +1954.7727
1  7  6   + 97 18 56 +31 44  9   +1973.9218
1  7  7   + 99 28 19 +33 29 19   +1990.7978
1  7  8   +101 42 59 +35 11 11   +2005.3693
1  7  9   +104  3 24 +36 49 32   +2017.6092
1  7 10   +106 30  2 +38 24  5   +2027.4954
1  7 11   +109  3 22 +39 54 35   +2035.0079
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1  7 13   +114 31 42 +42 42  6   +2042.8603
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1 19  7  +174 35 52 -48 35  9  + 439.0264
1 19  8  -179 57 36 -47 21 10  + 472.6586
1 19  9  -174 51 26 -45 52  3  + 508.8305
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1 19 12  -161 37 53 -40 14 24  + 630.6405
1 19 13  -157 52  7 -38  4 38  + 675.0051
1 19 14  -154 23 19 -35 48 53  + 720.9097
1 19 15  -151  9 52 -33 28 28  + 768.1491
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1 19 18  -142 45 25 -26  9 15  + 915.8519
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1 19 23  -131 39 44 -13 38 27  +1170.4115
1 19 24  -129 43 42 -11  9 28  +1220.9675
1 19 25  -127 51 35 - 8 41 31  +1271.0234
1 19 26  -126  2 43 - 6 14 48  +1320.4300
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1 19 28  -122 32 34 - 1 25 41  +1416.7307

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HAVANA 47  1  19 48 47.691
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1 21 47  - 77 21 22 +49 54 37  +1988.4715
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BELVOR 36  1  21 47  3.266
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1 22 21  + 21 31 44 - 8  0 48  + 571.8312
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1 22 27  + 36 58 28 -25 54 56  + 367.6049
1 22 28  + 40  3 46 -28 48  7  + 343.9539
1 22 29  + 43 21 38 -31 37  6  + 323.6842
1 22 30  + 46 53 45 -34 20 39  + 306.9111
1 22 31  + 50 41 49 -36 57 21  + 293.7285
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1 22 33  + 59 12  8 -41 43 44  + 278.4023
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1 22 54  +161  6 31 -27 24 39  + 883.9856
1 22 55  +163 38 59 -24 55 11  + 934.2431
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1 23 36  -101 46 42 +50  9 54  +1976.8408
1 23 37  - 97 50 20 +50 21 55  +1957.8970
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2  0  0  - 25 40  5 +17 52 51  +1022.8572
2  0  1  - 23 31 36 +15 18  5  + 970.8912
2  0  2  - 21 24 37 +12 39 32  + 919.2628
2  0  3  - 19 18 37 + 9 57 26  + 868.1759
2  0  4  - 17 12 57 + 7 12  1  + 817.8399
2  0  5  - 15  7  3 + 4 23 32  + 768.4701
2  0  6  - 13  0 18 + 1 32 16  + 720.2841
2  0  7  - 10 52  0 - 1 21 30  + 673.5035
```

```
2  0  8   -   8 41 30 - 4 17 25   + 628.3492
2  0  9   -   6 27 58 - 7 15  6   + 585.0422
2  0 10   -   4 10 40 -10 14  7   + 543.8005
2  0 11   -   1 48 39 -13 13 59   + 504.8376
2  0 12   +   0 39  1 -16 14  7   + 468.3592
2  0 13   +   3 13 26 -19 13 55   + 434.5637
2  0 14   +   5 55 46 -22 12 39   + 403.6374
2  0 15   +   8 47 19 -25  9 30   + 375.7528
2  0 16   +  11 49 31 -28  3 31   + 351.0680
2  0 17   +  15  3 53 -30 53 39   + 329.7233
2  0 18   +  18 32  5 -33 38 42   + 311.8406
2  0 19   +  22 15 46 -36 17 17   + 297.5206
2  0 20   +  26 16 40 -38 47 54   + 286.8423
2  0 21   +  30 36 13 -41  8 49   + 279.8629
2  0 22   +  35 15 39 -43 18 12   + 276.6154
2  0 23   +  40 15 39 -45 14  6   + 277.1099
2  0 24   +  45 35 54 -46 54 28   + 281.3333
2  0 25   +  51 15  5 -48 17 21   + 289.2491
2  0 26   +  57 10 25 -49 20 58   + 300.7989
2  0 27   +  63 17 49 -50  3 56   + 315.9030
2  0 28   +  69 31 49 -50 25 20   + 334.4619
2  0 29   +  75 46 21 -50 24 57   + 356.3582
2  0 30   +  81 55 10 -50  3 10   + 381.4564
2  0 31   +  87 52 40 -49 21  6   + 409.6075
2  0 32   +  93 34 22 -48 20 17   + 440.6480
2  0 33   +  98 57  6 -47  2 38   + 474.4037
2  0 34   +103 59 11 -45 30 15   + 510.6910
2  0 35   +108 40  7 -43 45 14   + 549.3180
2  0 36   +113  0 18 -41 49 35   + 590.0877
2  0 37   +117  0 48 -39 45  8   + 632.7985
2  0 38   +120 43  2 -37 33 32   + 677.2460
2  0 39   +124  8 37 -35 16 16   + 723.2249
2  0 40   +127 19 15 -32 54 32   + 770.5303
2  0 41   +130 16 31 -30 29 26   + 818.9584
2  0 42   +133  1 58 -28  1 51   + 868.3077
2  0 43   +135 36 59 -25 32 33   + 918.3811
OOMERA 40   2  0  43 27.879
                  +43.8202  1235.4654     N
2  0 44   +138  2 51 -23  2 12   + 968.9850
2  0 45   +140 20 46 -20 31 19   +1019.9309
2  0 46   +142 31 41 -18  0 21   +1071.0357
2  0 47   +144 36 30 -15 [illegible]
2  0 48   +146 36 22 -12 59 39   +1173.0238
2  0 49   +148 31 40 -10 30 29   +1223.5731
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2  0 51   +152 11 39 - 5 35 39   +1322.9989
2  0 52   +153 57 32 - 3 10 19   +1371.5838
2  0 53   +155 41 21 - 0 46 34   +1419.2342

2  0 53 19 +156 14 43 P   889    +1434.4435

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2  0 56   +160 45 13 + 6 14 12   +1555.3330
2  0 57   +162 25 26 + 8 30 41   +1598.0338
2  0 58   +164  5 47 +10 45  8   +1639.2296
2  0 59   +165 46 40 +12 57 31   +1678.8242
WAKEIS 38   2  0  59 28.716
                  -24.0450  1820.9436     N
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2  1  9   -175 29  9 +32 49 13   +1970.1824
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2  1 11   -170 57 26 +36 12 44   +2002.6817
2  1 12   -168 32 48 +37 48 59   +2015.4504
2  1 13   -166  1 42 +39 21 13   +2025.8647
2  1 14   -163 23 43 +40 49  8   +2033.9057
2  1 15   -160 38 27 +42 12 25   +2039.5583
2  1 16   -157 45 32 +43 30 41   +2042.8096
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2  1 18   -151 35 53 +45 50 38   +2042.0837
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2  1 21   -141 21 34 +48 32 28   +2022.9250
2  1 22   -137 41 59 +49 11 47   +2011.7483
2  1 23   -133 56  3 +49 43  3   +1998.2004
2  1 24   -130  4 46 +50  5 54   +1982.3007
2  1 25   -126  9 18 +50 19 58   +1964.0744
2  1 26   -122 10 57 +50 24 59   +1943.5507
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2  1 29   -110 13 38 +49 44 19   +1868.5570
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2  1 31   -102 27 50 +48 30 50   +1807.8234
2  1 32   - 98 42 41 +47 40 37   +1774.3976
2  1 33   - 95  3 38 +46 41 47   +1739.0176
2COLNS 26   2  1  33 58.705
                  +16.5525  1759.8561     S
2  1 34   - 91 31 27 +45 34 39   +1701.7549
2  1 35   - 88  6 34 +44 19 33   +1662.6872
2RSTON 27   2  1  35 25.717
                  +39.2289  1994.9060     S
2  1 36   - 84 49 12 +42 56 50   +1621.8990
2  1 37   - 81 39 24 +41 26 54   +1579.4817
FTSTEW 48   2  1  37  2.781
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CPCAN1 34   2  1  37 20.332
                  +51.7347  2214.5277     S
2AFMTC 28   2  1  37 20.332
                  +51.2089  2198.2060     S
2  1 38   - 78 37  1 +39 50  6   +1535.5336
BPOINT 49   2  1  38 30.617
                  + 2.7529  1513.8702     S
BELVOR 36   2  1  38 29.793
                  + 1.4712  1513.4998     S

ABDEEN 35   2  1  38 51.710
                  - 5.8960  1502.9044     S
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2  1 41   - 70 11 37 +34 21 44   +1395.6009
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2  1 44   - 62 39 51 +28  2 46   +1246.1738
PANTIG 41   2  1  44 21.877
                  +50.0080  1728.2857     S
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2  1 46   - 58  1 40 +23 25 24   +1143.2038
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2  1 48   - 53 36 48 +18 30 19   +1039.0937
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2  1 53   - 43  3 30 + 5  5 59   + 783.7585
2  1 54   - 40 57  8 + 2 15 31   + 735.1838
2  1 55   - 38 49 25 - 0 37 31   + 687.9454
2  1 56   - 36 39 38 - 3 32 47   + 642.2644
2  1 57   - 34 27  3 - 6 29 56   + 598.3621
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2  2  3   - 19 22 41 -24 24 18   + 384.1567
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2  2  5   - 13 12 26 -30 10 16   + 336.0595
2  2  6   -  9 48  1 -32 56 42   + 317.0849
2  2  7   -  6  8 34 -35 37  3   + 301.6434
2  2  8   -  2 12 19 -38  9 51   + 289.8201
2  2  9   +  2  2 16 -40 33 25   + 281.6799
2  2 10   +  6 36 27 -42 45 58   + 277.2631
2  2 11   + 11 31  8 -44 45 33   + 276.5870
2  2 12   + 16 46 15 -46 30  7   + 279.6458
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2  2 27   + 95 53 38 -35 51 11   + 708.7048
2  2 28   + 99  8  0 -33 30 20   + 755.619
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2  2 30   +104 57  3 -28 38 41   + 852.8059
2  2 31   +107 34 41 -26  9 37   + 902.6774
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2  2 36   +118 42 58 -13 35 60   +1157.1792
2  2 37   +120 39 25 -11  6 27   +1207.8597
2  2 38   +122 31 57 - 8 37 58   +1258.0810
2  2 39   +124 21 11 - 6 10 44   +1307.6912
2  2 40   +126  7 43 - 3 44 55   +1356.5454
2  2 41   +127 52  6 - 1 20 38   +1404.5063

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2  2 44   +132 56 58 + 5 41 48   +1541.7621
2  2 45   +134 37 18 + 7 58 51   +1584.9173
2  2 46   +136 17 40 +10 13 54   +1626.5962
2  2 47   +137 58 30 +12 26 52   +1666.7034
2  2 48   +139 40  7 +14 37 42   +1705.1490
2  2 49   +141 22 58 +16 46 19   +1741.8482
2  2 50   +143  7 24 +18 52 40   +1776.7229
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2  2 52   +146 42 38 +22 58 10   +1840.7153
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2  2 54   +150 28 59 +26 53 30   +1896.6119
2  2 55   +152 27 23 +28 47  3   +1921.3857
2  2 56   +154 29 52 +30 37 42   +1943.9792
2  2 57   +156 36 50 +32 25 16   +1964.3501
2  2 58   +158 48 47 +34  9 35   +1982.4611
2  2 59   +161  6 10 +35 50 26   +1998.2786
2  3  0   +163 29 28 +37 27 35   +2011.7737
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2  3  2   +168 35 32 +40 29 42   +2031.7005
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2  3  4   +174 10 19 +43 13 31   +2042.0919
2  3  5   +177  9 21 +44 27 39   +2043.6820
2  3  6   -179 43 38 +45 36  3   +2042.8599
2  3  7   -176 28 31 +46 38 16   +2039.6256
2  3  8   -173  5 27 +47 33 57   +2033.9809
2  3  9   -169 34 40 +48 22 32   +2025.9328
2  3 10   -165 56 39 +49  3 36   +2015.4929
2  3 11   -162 12  9 +49 36 43   +2002.[illegible]
2  3 12   -158 22  3 +50  1 29   +1987.4997
2  3 13   -154 27 29 +50 17 33   +1969.9894
2  3 14   -150 29 46 +50 24 39   +1950.1711
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2  3 15   -146 30 20 +50 22 33   +1928.[illegible]
2  3 16   -142 30 42 +50 11  8   +1903.[illegible]
2  3 17   -138 32 20 +49 50 22   +187[illegible]
2  3 18   -134 36 41 +49 20 19   +184[illegible]
2  3 19   -130 45  5 +48 41  7   +1817.7764
2  3 20   -126 58 37 +47 52 57   +1784.9667
2  3 21   -123 18 13 +46 56  7   +1750.1819
PALOTO 33   2  3  21 18.479
                  +38.4212  2086.3877     S
2  3 22   -119 44 33 +45 50 54   +1713.4916
NELCAL 42   2  3  22 47.715
                  +48.8387  2276.2856     S
2TEMPL 25   2  3  22 28.352
                  +45.3621  2195.3654     S
2GOLDS 24   2  3  22 49.857
```

```
                +39.8237   2049.0829      S
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2   3 23   -116 18  6 +44 37 40   +1674.9717
2   3 24   -112 59  9 +43 16 46   +1634.7048
2   3 25   -109 47 44 +41 48 33   +1592.7796
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2   3 27   -103 47  6 +38 31 36   +1504.3474
2   3 28   -100 57 21 +36 43 37   +1458.0550
2   3 29   - 98 14  6 +34 49 38   +1410.5346
2   3 30   - 95 37  1 +32 49 59   +1361.9131
2   3 31   - 93  5 30 +30 44 56   +1312.3257
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2   3 35   - 83 44 48 +21 35 38   +1107.3174
HAVANA 47   2   3   35 32.940
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2   3 36   - 81 33 15 +19  7  7   +1055.2246
CPCAN1 34   2   3   36 26.169
                -55.0342   1597.3140      S
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                -55.6614   1614.7962      S
2   3 37   - 79 24  4 +16 34 33   +1003.1533
2   3 38   - 77 16 40 +13 58  6   + 951.2975
BELVOR 36   2   3   38  4.057
                -85.0052   3086.2332      S
ABDEEN 35   2   3   38 34.050
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2   3 56   - 30 39 28 -37 31 31   + 293.1338
2   3 57   - 26 29 46 -39 57 36   + 283.8451
2   3 58   - 22  0 43 -42 13  9   + 278.2689
2   3 59   - 17 11 21 -44 16 14   + 276.4298
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2   4  1   -  6 31 39 -47 36 60   + 283.9460
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2   4 10   + 46 38 40 -46 18 51   + 487.8062
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2   4 18   + 76 51 46 -29 15 11   + 837.4855
2   4 19   + 79 32  5 -26 46 22   + 887.1373
2   4 20   + 82  2 37 -24 16 12   + 937.4402
2   4 21   + 84 24 36 -21 45 13   + 988.2025
2   4 22   + 86 39  5 -19 13 58   +1039.2384
2   4 23   + 88 47  7 -16 42 49   +1090.3662
2   4 24   + 90 49 31 -14 12  9   +1141.4121
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2   4 32   +105  8 52 +  5  9 31  +1528.1509
2   4 33   +106 49 21 +  7 27  9  +1571.7467
2   4 34   +108 29 46 +  9 42 47  +1613.8977
2   4 35   +110 10 33 +11 56 20   +1654.5052
2   4 36   +111 52  3 +14  7 46   +1693.4777
2   4 37   +113 34 41 +16 17  0   +1730.7292
2   4 38   +115 18 47 +18 23 58   +1766.1794
2   4 39   +117  4 48 +20 28 34   +1799.7541
2   4 40   +118 53  7 +22 30 45   +1831.3851
2   4 41   +120 44  6 +24 30 23   +1861.0086
2   4 42   +122 38 11 +26 27 24   +1888.5666
2   4 43   +124 35 48 +28 21 40   +1914.0063
2   4 44   +126 37 22 +30 13  2   +1937.2791
2   4 45   +128 43 22 +32  1 21   +1958.3417
2   4 46   +130 54 13 +33 46 27   +1977.1547
2   4 47   +133 10 23 +35 28  8   +1993.6839
2   4 48   +135 32 21 +37  6 10   +2007.8982
2   4 49   +138  0 34 +38 40 17   +2019.7723
2   4 50   +140 35 29 +40 10 13   +2029.2834
2   4 51   +143 17 30 +41 35 39   +2036.4146
2   4 52   +146  6 58 +42 56 14   +2041.1507
2   4 53   +149  4 15 +44 11 35   +2043.4816
2   4 54   +152  9 28 +45 21 18   +2043.4018
2   4 55   +155 22 46 +46 24 58   +2040.9089
2   4 56   +158 44  4 +47 22  7   +2036.0042
2   4 57   +162 13  8 +48 12 19   +2028.6934
2   4 58   +165 49 32 +48 55  5   +2018.9866
2   4 59   +169 32 36 +49 30  1   +2006.8967
2   5  0   +173 21 29 +49 56 40   +1992.4420
2   5  1   +177 15  4 +50 14 43   +1975.6448
2   5  2   -178 47 54 +50 23 51   +1956.5310
2   5  3   -174 48 49 +50 23 50   +1935.1322
2   5  4   -170 49 12 +50 14 31   +1911.4830
2   5  5   -166 50 34 +49 55 53   +1885.6252
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2   5 18   -123 38 11 +33 18 40   +1376.9626
PALOTO 33   2   5   18 33.621
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2   5 19   -121  5 31 +31 14 59   +1327.6570
2   5 20   -118 38  4 +29  6  6   +1277.4846
NELCAL 42   2   5   20 41.290
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2TEMPL 25   2   5   20 13.439
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2GOLDS 24   2   5   20 44.421
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NELCAL 42  2  22 57  38.248
              +49.4711  2729.3940     N
2 22 58  -115 46 34 +47 13 22  +2032.8330
2 22 59  -112 18 50 +48  4 45  +2027.8102
2 23  0  -108 43 48 +48 48 48  +2020.3857
2 23  1  -105  2  5 +49 25  3  +2010.5695
2 23  2  -101 14 29 +49 53  7  +1998.3758
2 23  3  - 97 22  8 +50 12 39  +1983.8227
2 23  4  - 93 26 11 +50 23 21  +1966.9331
2 23  5  - 89 28  5 +50 24 59  +1947.7332
2 23  6  - 85 29 16 +50 17 24  +1926.2556
2 23  7  - 81 31 15 +50  0 33  +1902.5354
FTSTEW 48  2  23 6  59.952
              +59.6593  2963.1336     S
2 23  8  - 77 35 29 +49 34 28  +1876.6140
BPOINT 49  2  23 8   7.435
              +42.6333  2337.4448     S
2 23  9  - 73 43 14 +48 59 16  +1848.5376
2 23 10  - 69 55 46 +48 15  7  +1818.3575
2 23 11  - 66 14  2 +47 22 18  +1786.1300
2 23 12  - 62 38 47 +46 21  6  +1751.9176
2 23 13  - 59 10 34 +45 11 50  +1715.7890
2 23 14  - 55 49 44 +43 54 52  +1677.8185
2 23 15  - 52 36 23 +42 30 34  +1638.0869
2 23 16  - 49 30 32 +40 59 18  +1596.6821
2 23 17  - 46 31 59 +39 21 23  +1553.6986
2 23 18  - 43 40 28 +37 37 11  +1509.2385
2 23 19  - 40 55 39 +35 47  0  +1463.4108
2 23 20  - 38 17  3 +33 51  8  +1416.3327
2 23 21  - 35 44 15 +31 49 52  +1368.1293
2 23 22  - 33 16 43 +29 43 26  +1318.9336
2 23 23  - 30 53 58 +27 32  5  +1268.8872
2 23 24  - 28 35 27 +25 16  2  +1218.1396
2 23 25  - 26 20 36 +22 55 29  +1166.8489
2 23 26  - 24  8 56 +20 30 39  +1115.1818
2 23 27  - 21 59 51 +18  1 43  +1063.3129
2 23 28  - 19 52 51 +15 28 53  +1011.4245
2 23 29  - 17 47 22 +12 52 20  + 959.7070
2 23 30  - 15 42 51 +10 12 16  + 908.3570
2 23 31  - 13 38 43 + 7 28 55  + 857.5787
2 23 32  - 11 34 23 + 4 42 31  + 807.5805
2 23 33  -  9 29 13 + 1 53 17  + 758.5768
```

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2 23 35  -   5 13 52 - 3 52 25  + 664.4211
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2 23 37  -   0 46 58 - 9 45 30  + 576.8627
2 23 38  +   1 32 52 -12 43 45  + 536.1007
2 23 39  +   3 58  9 -15 42 29  + 497.6319
2 23 40  +   6 30  0 -18 41  4  + 461.6605
2 23 41  +   9  9 31 -21 38 50  + 428.3793
2 23 42  +  11 57 59 -24 35  1  + 397.9716
2 23 43  +  14 56 48 -27 28 42  + 370.6068
2 23 44  +  18  7 27 -30 18 53  + 346.4394
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2 23 46  +  25 10 55 -35 43 55  + 308.2238
2 23 47  +  29  7  9 -38 15 58  + 294.3914
2 23 48  +  33 21 51 -40 38 52  + 284.1848
2 23 49  +  37 56 20 -42 50 48  + 277.6582
2 23 50  +  42 51 27 -44 49 49  + 274.8422
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2 23 54  +  65 41 12 -49 56 48  + 300.5044
2 23 55  +  71 55 26 -50 23  3  + 315.9117
2 23 56  +  78 11 51 -50 27 21  + 334.7458
2 23 57  +  84 24  4 -50  9 58  + 356.8898
2 23 58  +  90 26 16 -49 31 47  + 382.2085
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3  0  5  +123 56 37 -37 54 24  + 634.3863
3  0  6  +127 26 40 -35 36 34  + 678.8620
3  0  7  +130 41 18 -33 13 58  + 724.8485
3  0  8  +133 42 10 -30 47 44  + 772.1419
3  0  9  +136 30 49 -28 18 50  + 820.5385
OOMERA 40   3  0  9   5.553
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3  0 10  +139  8 43 -25 48  3  + 869.8384
3  0 11  +141 37 12 -23 16  5  + 919.8442
3  0 12  +143 57 27 -20 43 30  + 970.3634
3  0 13  +146 10 31 -18 10 47  +1021.2074
3  0 14  +148 [illegible]  +1072.1746
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3  0 16  +152 15 55 -10 35 30  +1173.8997
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3  0 18  +155 58 55 - 5 37  7  +1274.1476
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3  0 20  +159 31 18 - 0 44 40  +1371.7187

3  0 20 18 +160  3 21 P  902   +1386.4013

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3  0 23  +164 38 57 + 6 20 42  +1510.6669
3  0 24  +166 20 22 + 8 38 33  +1554.5180
3  0 25  +168  1 56 +10 54 18  +1596.9527
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3  0 28  +173 11 21 +17 28 14  +1714.7886
3  0 29  +174 57 24 +19 34 51  +1750.6187
3  0 30  +176 45 32 +21 39  1  +1784.5933
3  0 31  +178 36 11 +23 40 36  +1816.6428
```

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3  0 35  -173 27 45 +31 19  3  +1924.3673
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3  0 38  -166 43 11 +36 29 22  +1982.2759
3  0 39  -164 16 49 +38  5 22  +1997.0115
3  0 40  -161 43 59 +39 37 13  +2009.4145
3  0 41  -159  4 13 +41  4 37  +2019.4617
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3  0 47  -140 24 56 +47 55  6  +2029.5062
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3  0 57  -101 54  5 +49  7  7  +1856.7187
3  0 58  - 98  5 42 +48 24 47  +1827.1266
3  0 59  - 94 22 51 +47 33 44  +1795.4707
3  1  0  - 90 46 23 +46 34 15  +1761.8119
3  1  1  - 87 16 51 +45 26 39  +1726.2168
3  1  2  - 83 54 38 +44 11 18  +1688.7582
FTSTEW 48   3  1  2  44.080
              +45.9282  2167.1884     S
3  1  3  - 80 39 54 +42 48 33  +1649.5151
3  1  4  - 77 32 39 +41 18 45  +1608.5735
BPOINT 49   3  1  4   8.620
              +13.0071  1635.9416     S
3  1  5  - 74 32 46 +39 42 16  +1566.0256
3  1  6  - 71 39 58 +37 59 26  +1521.9721
3  1  7  - 68 53 56 +36 10 34  +1476.5197
3  1  8  [illegible] +34 15 50  [illegible]
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PANTIG 41   3  1  9  45.379
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3  1 16  - 47 44 45 +16  2 28  +1026.1186
3  1 17  - 45 39  6 +13 26 51  + 974.3364
3  1 18  - 43 34 33 +10 47 41  + 922.8652
3  1 19  - 41 30 29 + 8  5 10  + 871.9072
3  1 20  - 39 26 23 + 5 19 33  + 821.6708
3  1 21  - 37 21 34 + 2 31  5  + 772.3670
3  1 22  - 35 15 27 - 0 19 60  + 724.2130
3  1 23  - 33  7 22 - 3 13 21  + 677.4269
3  1 24  - 30 56 34 - 6  8 39  + 632.2282
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3  1 26  - 26 23 40 -12  3 27  + 547.4652
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```
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3  1 30  -  16  5 51 -23 55  2  + 406.3339
3  1 31  -  13  9 37 -26 49 17  + 378.0917
3  1 32  -  10  1 54 -29 40 18  + 353.0036
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3  1 43  +  43  4 33 -50 18 58  + 311.1982
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3  1 46  +  61 40  9 -49 42 16  + 374.7069
3  1 47  +  67 31 20 -48 48 59  + 402.2049
3  1 48  +  73  4 44 -47 37 45  + 432.6138
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3  1 50  +  83 10  2 -44 29 43  + 501.4740
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3  2  7  + 129 59 23 - 3 41  2  +1309.4866
3  2  8  + 131 45  1 - 1 15  8  +1358.1154

3  2  8 31 +132 39  1 P  903   +1382.9069

3  2  9  + 133 28 58 + 1  9  3  +1405.8337
3  2 10  + 135 11 41 + 3 31 23  +1452.5123
3  2 11  + 136 53 36 + 5 51 48  +1498.0281
3  2 12  + 138 35  8 + 8 10 11  +1542.2559
3  2 13  + 140 16 44 +10 26 30  +1585.[illegible]
3  2 14  + 141 58 46 +12 40 38  +162[illegible]
3  2 15  + 143 41 40 +14 52 32  +166[illegible]
3  2 16  + 145 25 46 +17  2  8  +1704.3580
3  2 17  + 147 11 31 +19  9 21  +1740.7029
3  2 18  + 148 59 17 +21 14  6  +1775.2128
3  2 19  + 150 49 28 +23 16 17  +1807.8159
3  2 20  + 152 42 31 +25 15 50  +1838.4466
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3  2 22  + 156 38 46 +29  6 29  +1893.5496
3  2 23  + 158 42 51 +30 57 19  +1917.9157
3  2 24  + 160 51 31 +32 44 58  +1940.0956
3  2 25  + 163  5 14 +34 29 13  +1960.0471
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3   2 30   +175 45 11 +42 11 21   +2025.2453
3   2 31   +178 38 20 +43 29 52   +2031.2038
3   2 32   -178 20 42 +44 42 57   +2034.7646
3   2 33   -175 11 47 +45 50  9   +2035.9195
3   2 34   -171 54 56 +46 51  4   +2034.6648
3   2 35   -168 30 15 +47 45 15   +2031.0000
3   2 36   -164 58  7 +48 32 15   +2024.9292
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3   2 38   -157 33 45 +49 42 59   +2005.6039
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3   2 50   -111 59 22 +44 27 14   +1699.4823
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3   2 52   -105 34 38 +41 37 42   +1620.2567
3   2 53   -102 33 25 +40  2 38   +1578.1497
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3   2 55   - 96 52  4 +36 33 37   +1489.4369
3   2 56   - 94 11 15 +34 40 17   +1443.0494
3   2 57   - 91 36 22 +32 41 27   +1395.4650
3   2 58   - 89  6 58 +30 37 23   +1346.8130
3   2 59   - 86 42 34 +28 28 19   +1297.2305
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HAVANA 47   3   3   0   48.532
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FTSTEW 48   3   3   1   16.217
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3   3  3   - 77 43 56 +19  6 24   +1092.6162
3   3  4   - 75 36 23 +16 35 30   +1040.7208
3   3  5   - 73 30 34 +14  0 49   + 988.8890
3   3  6   - 71 25 55 +11 22 32   + 937.3134
3   3  7   - 69 21 57 + 8 40 53   + 886.1938
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3   3  9   - 65 13 32 + 3  8 20   + 786.1530
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3   3 11   - 61  0 24 - 2 34 48   + 690.4685
3   3 12   - 58 50 23 - 5 29 34   + 644.8050
3   3 13   - 56 37  4 - 8 25 58   + 600.8857
3   3 14   - 54 19 35 -11 23 36   + 558.9286
3   3 15   - 51 57  5 -14 21 56   + 519.1458
3   3 16   - 49 28 30 -17 20 27   + 481.7450
3   3 17   - 46 52 49 -20 18 29   + 446.9261
3   3 18   - 44  8 45 -23 15 18   + 414.8776
3   3 19   - 41 15  1 -26 10  5   + 385.7765
3   3 20   - 38 10  7 -29  1 51   + 359.7862
3   3 21   - 34 52 28 -31 49 31   + 337.0529
3   3 22   - 31 20 26 -34 31 51   + 317.7056
3   3 23   - 27 32 15 -37  7 26   + 301.8537
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```
3   3 24   - 23 26 18 -39 34 41   + 289.5858
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3   4  2   +114 13 45 +12 13 30   +1615.0360
3   4  3   +115 56 31 +14 25 58   +1655.2717
3   4  4   +117 40 27 +16 36  9   +1693.8574
3   4  5   +119 25 55 +18 43 56   +1730.7079
3   4  6   +121 13 20 +20 49 16   +1765.7442
3   4  7   +123  3  5 +22 52  4   +1798.8926
3   4  8   +124 55 36 +24 52 13   +1830.0860
3   4  9   +126 51 16 +26 49 37   +1859.2615
3   4 10   +128 50 33 +28 44  9   +1886.3621
3   4 11   +130 53 51 +30 35 40   +1911.3355
3   4 12   +133  1 39 +32 23 60   +1934.1343
3   4 13   +135 14 23 +34  8 59   +1954.7157
3   4 14   +137 32 33 +35 50 24   +1973.0419
3   4 15   +139 56 33 +37 28  1   +1989.0788
3   4 16   +142 26 53 +39  1 36   +2002.7971
3   4 17   +145  3 57 +40 30 49   +2014.1716
3   4 18   +147 48  9 +41 55 24   +2023.1809
3   4 19   +150 39 52 +43 14 58   +2029.8085
3   4 20   +153 39 18 +44 29  8   +2034.0408
3   4 21   +156 46 40 +45 37 31   +2035.8687
3   4 22   +160  1 58 +46 39 42   +2035.2874
3   4 23   +163 25  7 +47 35 13   +2032.2954
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```
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3   4 27   +178  7  9 +50  2  7   +1996.3349
3   4 28   -177 59  5 +50 18  4   +1981.4111
3   4 29   -174  2 21 +50 25  6   +1964.1535
3   4 30   -170  4  5 +50 23  1   +1944.5902
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3   4 32   -162  8 47 +49 51 11   +1898.6812
3   4 33   -158 14 39 +49 21 29   +1872.4139
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3   4 35   -150 39 44 +47 55 13   +1813.4890
3   4 36   -147  0 54 +46 59  9   +1780.9409
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3   4 38   -140  3 55 +44 42 42   +1709.9921
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3 16 44   - 69 23 42 +22  9 34   +1768.9848
3 16 45   - 67 31 37 +24 11 12   +1801.9832
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3 16 50   - 57 17 16 +33 35 12   +1936.3491
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3 17 16   + 30 15 36 +43 52 15   +1706.3221
3 17 17   + 33 27 11 +42 28 22   +1667.8789
3 17 18   + 36 31 23 +40 57 39   +1627.6984
3 17 19   + 39 28 19 +39 20 26   +1585.8705
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3 18 12   -135 11 48 -26  5 17   + 832.6226
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3 20 17   -130 12 54 +15  0  9   +1637.9311
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4 16 38   + 19 17 23 +48 23  6   +1877.5760
4 16 39   + 22 57  5 +47 32 27   +1849.5087
4 16 40   + 26 30 23 +46 33 37   +1819.3367
4 16 41   + 29 56 45 +45 26 58   +1787.1176
4 16 42   + 33 15 52 +44 12 49   +1752.9145
4 16 43   + 36 27 33 +42 51 32   +1716.7962
4 16 44   + 39 31 51 +41 23 29   +1678.8379
4 16 45   + 42 28 54 +39 49  1   +1639.1209
4 16 46   + 45 18 60 +38  8 26   +1597.7338
4 16 47   + 46  2 25 +36 22  3   +1554.7716
4 16 48   + 50 39 36 +34 30 11   +1510.3362
4 16 49   + 53 11  1 +32 33  4   +1464.5379
4 16 50   + 55 37  6 +30 30 57   +1417.4938
4 16 51   + 57 58 25 +28 24  5   +1369.3290
4 16 52   + 60 15 25 +26 12 39   +1320.1768
4 16 53   + 62 28 37 +23 56 51   +1270.1785
4 16 54   + 64 38 34 +21 36 52   +1219.4841
4 16 55   + 66 45 46 +19 12 53   +1168.2511
4 16 56   + 68 50 44 +16 45  4   +1116.6457
4 16 57   + 70 53 60 +14 13 34   +1064.8418
4 16 58   + 72 56  5 +11 38 36   +1013.0209
4 16 59   + 74 57 33 + 9  0 18   + 961.3727
4 17  0   + 76 58 56 + 6 18 53   + 910.0927
4 17  1   + 79  0 47 + 3 34 34   + 859.3832
4 17  2   + 81  3 46 + 0 47 35   + 809.4524
4 17  3   + 83  8 26 - 2  1 49   + 760.5110
4 17  4   + 85 15 33 - 4 53 20   + 712.7746
4 17  5   + 87 25 45 - 7 46 38   + 666.4605
4 17  6   + 89 39 54 -10 41 20   + 621.7859
4 17  7   + 91 58 51 -13 36 59   + 578.9673
4 17  8   + 94 23 32 -16 33  5   + 538.2172

4 17  9   + 96 55  3 -19 29  3   + 499.7445
4 17 10   + 99 34 31 -22 24 13   + 463.7507
4 17 11   +102 23 16 -25 17 48   + 430.4278
4 17 12   +105 22 42 -28  8 55   + 399.9571
4 17 13   +108 34 21 -30 56 33   + 372.5077
4 17 14   +111 59 54 -33 39 31   + 348.2326
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4 17 17   +123 57  0 -41  6 13   + 295.7302
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4 17 19   +133 33 28 -45 11 27   + 278.5952
4 17 20   +138 53 12 -46 52 19   + 275.5555
4 17 21   +144 32 40 -48 15 54   + 276.2226
4 17 22   +150 29 20 -49 20 18   + 280.5854
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4 17 24   +162 56 22 -50 25 48   + 300.2410
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4 17 26   +175 28 46 -50  3 12   + 333.9957
4 17 27   -178 28 32 -49 20  1   + 355.9095
4 17 28   -172 41 37 -48 17 28   + 381.0120
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4 17 31   -157 21 31 -43 33 40   + 473.9212
4 17 32   -152 57 21 -41 34  6   + 510.1887
4 17 33   -148 53 16 -39 25 21   + 548.7960
4 17 34   -145  7 46 -37  9 10   + 589.5473
4 17 35   -141 39 14 -34 47  4   + 632.2427
4 17 36   -138 25 55 -32 20 20   + 676.6778
4 17 37   -135 26  9 -29 50  8   + 722.6481
4 17 38   -132 38 22 -27 17 23   + 769.9477
4 17 39   -130  1  7 -24 42 55   + 818.3727
4 17 40   -127 33  2 -22  7 24   + 867.7210
4 17 41   -125 12 60 -19 31 26   + 917.7938
4 17 42   -122 59 53 -16 55 28   + 968.3964
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4 17 48   -111 19 39 - 1 38 53   +1272.9224

4 17 48 40 -110  8 17 P   925    +1305.7399

4 17 49   -109 33  2 + 0 48 33   +1322.2596
4 17 50   -107 47 47 + 3 14  3   +1370.7856
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4 17 52   -104 19 38 + 7 58 48   +1464.8659
4 17 53   -102 35 51 +10 17 53   +1510.1690
4 17 54   -100 51 40 +12 34 38   +1554.1584
4 17 55   - 99  6 42 +14 48 60   +1596.7266
4 17 56   - 97 20 33 +17  0 53   +1637.7721
4 17 57   - 95 32 48 +19 10 14   +1677.2001
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4 17 59   - 91 50 52 +23 20 54   +1750.8568
4 18  0   - 89 55 52 +25 22  2   +1784.9267
4 18  1   - 87 57 36 +27 20 13   +1817.0618
4 18  2   - 85 55 39 +29 15 19   +1847.1972
4 18  3   - 83 49 32 +31  7 12   +1875.2727
HAVANA 47  4  18 3  35.716
               +36.8727  2227.4317     N
4 18  4   - 81 38 52 +32 55 40   +1901.2342
FTSTEW 48  4  18 4   3.649
               + 4.5536  1907.3971     N
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+112  1 41 - 1 12

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+120 47 36 +10 45
+122 32 24 +13  2
+124 18  6 +15 17
+126  5  3 +17 2
+127 53 41 +19 3
+129 44 24 +21 4
+131 37 38 +23 4
+133 33 47 +25 4
+135 33 18 +27 4
+137 36 36 +29 4
+139 44 10 +31 3
+141 56 25 +33 2
+144 13 48 +35
+146 36 48 +36 4
+149  5 51 +38 2
+151 41 24 +39 5
+154 23 49 +41 2
+157 13 26 +42 4
+160 10 35 +44
+163 15 22 +45 1
+166 27 55 +46 1
+169 48  8 +47 1
+173 15 43 +48
+176 50 20 +48 4
-179 28 47 +49 2
-175 42 23 +49 5
-171 51 37 +50 1
-167 57 39 +50 2
-164  1 52 +50 2
-160  5 40 +50 1
-156 10 32 +50
-152 17 48 +49 3
-148 28 47 +49
-144 44 35 +48 1
-141  6  8 +47 2
-137 34  8 +46 2
-134  9  6 +45 2
-130 51 22 +44
-127 40 59 +42 4
-124 38  0 +41 1
-121 42 14 +39 4
-118 53 22 +38
42   5   3  35 41.83
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-116 11  7 +36 1
-113 35  1 +34 2
-111  4 40 +32 2
-108 39 34 +30 2
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- 99 41 41 +21
- 97 35 16 +19 1
- 95 31  4 +16
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4 18  7  - 74 34 41 +37 58 46  +1965.9624
4 18  8  - 72  1  7 +39 31 33  +1983.0199
4 18  9  - 69 20 44 +40 59 45  +1997.7616
4 18 10  - 66 33 12 +42 23  3  +2010.1611
4 18 11  - 63 38 13 +43 41  5  +2020.1969
4 18 12  - 60 35 32 +44 53 29  +2027.8491
4 18 13  - 57 25  6 +45 59 52  +2033.1035
4 18 14  - 54  6 55 +46 59 48  +2035.9503
4 18 15  - 50 41 12 +47 52 53  +2036.3823
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4 18 17  - 43 28 52 +49 16 45  +2029.9971
4 18 18  - 39 43 40 +49 46 47  +2023.1864
4 18 19  - 35 53 42 +50  8 24  +2013.9757
4 18 20  - 32  0 10 +50 21 20  +2002.3779
4 18 21  - 28  4 23 +50 25 23  +1988.4110
4 18 22  - 24  7 47 +50 20 23  +1972.0973
4 18 23  - 20 11 47 +50  6 18  +1953.4631
4 18 24  - 16 17 52 +49 43 11  +1932.5396
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4 18 27  -  5  0 45 +47 40 60  +1856.4123
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4 18 29  +  2  0 50 +45 38  5  +1794.9989
4 18 30  +  5 20 59 +44 25  9  +1761.2622
4 18 31  +  8 33 44 +43  5  3  +1725.5931
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4 18 33  + 14 37  9 +40  4 44  +1648.7604
4 18 34  + 17 28 11 +38 25 12  +1607.7632
4 18 35  + 20 12 32 +36 39 50  +1565.1673
4 18 36  + 22 50 35 +34 48 56  +1521.0741
4 18 37  + 25 22 46 +32 52 45  +1475.5909
4 18 38  + 27 49 34 +30 51 34  +1428.8339
4 18 39  + 30 11 30 +28 45 35  +1380.9255
4 18 40  + 32 29  2 +26 35  0  +1331.9977
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4 19  1  + 80 34 10 -30 25 60  + 378.8353
4 19  2  + 83 56 55 -33  9 51  + 353.7877
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4 19  4  + 91 30  6 -38 18 55  + 313.6537
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4 19 11   +128  5 45 -49 57 29   + 286.3714
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4 19 13   +140 41 17 -50 27 11   + 311.4589
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4 19 21   -176 59 54 -39 49 16   + 539.3292
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4 19 23   -169 39 22 -35 12 59   + 621.8344
4 19 24   -166 23 17 -32 46 53   + 665.8731
4 19 25   -163 21  4 -30 17  6   + 711.4966
4 19 26   -160 31  6 -27 44 36   + 758.4993
4 19 27   -157 51 56 -25 10 15   + 806.6768
4 19 28   -155 22 10 -22 34 45   + 855.8261
4 19 29   -153  0 40 -19 58 40   + 905.7475
4 19 30   -150 46 18 -17 22 32   + 956.2455
4 19 31   -148 38  3 -14 46 46   +1007.1284
4 19 32   -146 35  7 -12 11 42   +1058.2109
4 19 33   -144 36 39 - 9 37 39   +1109.3133
4 19 34   -142 41 58 - 7  4 51   +1160.2623
4 19 35   -140 50 25 - 4 33 31   +1210.8907
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4 19 36 50 -137 31 53 P   926    +1302.4561

4 19 37   -137 14 23 + 0 24  3   +1310.5552
4 19 38   -135 28 51 + 2 50  1   +1359.2926
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4 19 55   -102 21 16 +37 44  4   +1961.6011
4 19 56   - 99 48 38 +39 17 34   +1979.2044
4 19 57   - 97  9 16 +40 46 31   +1994.4993
4 19 58   - 94 22 48 +42 10 37   +2007.4580
4 19 59   - 91 28 55 +43 29 30   +2018.0564
4 20  0   - 88 27 25 +44 42 48   +2026.2754
4 20  1   - 85 18  8 +45 50  8   +2032.0998
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FTSTEW 48   4  20 2   8.924
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4 20  5  - 71 26 14 +49 11 27  +2031.2801
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4 21  2  +118 24 32 -50 13 53  + 324.7064
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4 21 30   -156 12 35 +11 50 39   +1533.4697
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4 21 32   -152 41 47 +16 18 56   +1618.5250
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4 21 35   -147 13 35 +22 42  4   +1734.0901
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